ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
Bruhat Bengaluru Mahanagara Palike

EXECUTIVE ENGINEER, RR NAGAR DIVISION

DETAILED PROJECT REPORT

Package Name : Providing Gallery to Musical Fountain in JP Park in Ward No 17and Drilling of Borewells, Providing Water Supply and Construction of RO Plants in Rajarajeshwari nagara Constituency under PACKAGE-2022-23 RRN-DIV-(10).

Est Cost : 1500.00 Lakhs

CIVIL QUALITY CONSULTANTS & ENGINEERS
(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC: 17025:2005 Laboratory
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EXECUTIVE SUMMARY

Action Initiation:

Office of The Executive engineer, project Raja Rajeshwari Nagara Zone, Bruhat Bengaluru Mahanagara Palike.

Raja Rajeshwari Nagara zone, Bengaluru has proposed Action plan for development of buildings, multipurpose building.

The various functions in the Civic development are orderly development of the city (including zoning and building regulations), health, hygiene, trade licensing and education through its network of schools, and for the quality of life and also maintaining lung spaces, water bodies, parks, Play grounds, greening of the city etc.

Bruhat Bengaluru Mahanagara Palike, Bengaluru in consideration of the factors mentioned in preceding parts to which various playgrounds are currently subjected to development and improvements. Hence, a study for the techno- socio-environmental feasibility report is initiated.

The objectives of the study is to

- Formulate plans for development of building.
- Improve the building for public utility
- Enhancing the building values (historic, conservation).

For attaining the above, Bruhat Bengaluru Mahanagara Palike, Bengaluru have entrusted the work to **CIVIL QUALITY CONSULTANTS AND ENGINEERS.,** Bengaluru for the purpose of Providing Gallery to Musical Fountain in JP Park in Ward No 17and Drilling of Borewells, Providing Water Supply and Construction of RO Plants in Rajarajeshwari nagara Constituency under PACKAGE-2022-23 RRN-DIV-(10)

As per the essentiality and requirement, evaluation studies on the following aspects were carried Out,

- Survey of present status of the building area.
- Authorized/Unauthorized developments around the building surrounding..
- Analyze Condition of the building area and surroundings.
- The financial implications for revival and its maintenance.

This section presents a summary of recommendations made in the project report of the study.

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Chapter-1

INTRODUCTION

1.1GENERAL

Bangalore is the capital of Karnataka. It is located on the Deccan Plateau in the south- eastern part of Karnataka. Bangalore is India's third most populous city and fifth-most populous urban agglomeration. Bangalore is well known as a hub for India's Information Technology sector. It is among the top 10 preferred entrepreneurial locations in the world Bangalore is sometimes referred to as the "Silicon Valley of India" (or "IT capital of India") because of its role as the nation's leading information technology (IT) exporter. Indian technological organizations ISRO, Infosys, Wipro and HAL are headquartered in the city. A demographically diverse city, Bangalore is the second fastest-growing major metropolis in India.

1.2 GEOGRAPHY

Bangalore lies in the southeast of the South Indian state of Karnataka. It is in the heart of the Mysore Plateau (a region of the larger Precambrian Deccan) at an average elevation of 900 m (2,953 Ft.).It is located at 12.97°N 77.56°E and covers an area of 741 km2 (286 sq mi).The majority of the city of Bangalore lies in the Bangalore Urban district of Karnataka and the surrounding rural areas are a part of the Bangalore Rural district. The topology of Bangalore is flat except for a central ridge running NNE-SSW. The highest point is Vidyaranyapura Doddabettahalli, which is 962 m (3,156 ft) and lies on this ridge. No major rivers run through the city, though the Arkavathi and South Pennar cross paths at the Nandi Hills, 60 km (37 mi.) to the north. River Vrishabhavathi, a minor tributary of the Arkavathi, arises within the city at Basavanagudi and flows through the city. The rivers Arkavathi and Vrishabhavathi together carry much of Bangalore's sewage. A sewerage system, constructed in 1922, covers 215 km² (133 mi²) of the city and connects with five sewage treatment centers located in the periphery of Bangalor.

1.3 CLIMATE

Bangalore has a tropical savanna climate with distinct wet and dry seasons. Due to its high elevation, Bangalore usually enjoys a more moderate climate throughout the year, although occasional heat waves can make summer somewhat uncomfortable the coolest month is January with an average low temperature of 15.1 °C (59.2 °F) and the hottest month is April with an average high temperature of 35 °C (95 °F). The highest temperature ever recorded in Bangalore is

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39.2 °C (103 °F) (recorded on 24 April 2016) as there was a strong El Nino in 2016 There were also unofficial records of 41 °C (106 °F) on that day. The lowest ever recorded is 7.8 °C (46 °F) in January 1884 Winter temperatures rarely drop below 14 °C (57 °F), and summer temperatures seldom exceed 36 °C (97 °F). Bangalore receives rainfall from both the northeast and the southwest monsoons and the wettest months are September, October and August, in that order. The summer heat is moderated by fairly frequent thunderstorms, which occasionally cause power outages and local flooding. Most of the rainfall occurs during late afternoon/evening or night and rain before noon is infrequent. November 2015 (290.4 mm) was recorded as one of the wettest months in Bangalore with heavy rains causing severe flooding in some areas, and closure of a number of organizations for over a couple of days The heaviest rainfall recorded in a 24-hour period is 179 millimeters recorded on 1 October 1997

1.4 CIVIC ADMINISTRATION

The **Bruhat Bengaluru Mahanagara Palike (BBMP)** is the administrative body responsible for civic amenities and some infrastructural assets of the Greater Bangalore metropolitan area.[1] It is the fourth largest Municipal Corporation in India being responsible for a population of 6.8 million in an area of 741 km^2. Its boundaries have expanded more than 10 times over the last six decades. Its roles and responsibilities include the "orderly development of the city" — zoning and building regulations, health, hygiene, licensing, trade and education, as well as quality of life issues such as public open space, water bodies, parks and greenery. The BBMP represents the third level of government (the Central Government and State Government being the first two levels). BBMP is run by a city council composed of elected representatives, called "corporators", one from each of the wards (localities) of the city

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BRUHAT BENGALURU MAHANAGARA PALIKE

The Bruhat Bengaluru Mahanagara Palike (BBMP) is the administrative body responsible for the civil and infrastructural assets of the Greater Bangalore metropolitan area.

The BBMP represents the third level of government, (the Central government and State Government being the first two levels). Bruhat Bangalore Mahanagara Palike is run by a city council. The city council comprises elected representatives, called "corporators

1.4.1 HISTORY

The history of municipal governance of Bangalore dates back to 27 March 1862, when nine leading citizens of the old city formed a Municipal Board under the Improvement of Towns Act of 1850 with a similar Municipal Board was also formed in the newer Cantonment area.[3] The two boards were legalised in 1881, and functioned as two independent bodies called the Bangalore City Municipality and the Bangalore Civil and Military Station Municipality (Cantonment). The following year, half of the municipal councillors were permitted to be elected; property tax was introduced and greater powers given over police and local improvement.

After Indian independence, the two Municipal Boards were merged to form the Corporation of the City of Bangalore in 1949, under the Bangalore City Corporation Act. The corporation then consisted of 70 elected representatives and 50 electoral divisions and the office of Mayor introduced for the first time. The first elections were held in 1950.

The name of the council changed — first to Bangalore City Corporation (BCC) and then to Bangalore Mahanagara Palike

In 1991 the BMP expanded to include 87 wards in 1991 and 100 wards in 1995. The council also included 40 additional members drawn from the parliament and state legislature.

In November 2006, the BMP Council was dissolved by the state government upon the completion of its five year term. In January 2007, the Karnataka Government issued a notification to merge 100 wards of the erstwhile Bangalore Mahanagara Palike with seven City Municipal Councils (CMC)s, one Town Municipal Council (TMC) and 111 villages around the city to form a single administrative

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area.[4] The process was completed by April 2007 and the body was renamed 'Bruhat Bangalore Mahanagara Palike' (Greater Bangalore Municipal Corporation).

1.4.2 STRUCTURE

A mayor and deputy mayor of the council are also elected for a period of 1-year, though not by popular votethe BBMP is at present run by an Administrator and a Commissioner, who are appointed by the State Government. The Additional Commissioner is a specially appointed IRS officer. The Bruhat Bangalore Mahanagara Palike is responsible for civic and infrastructural requirements of the city. It often works in conjunction with other civic bodies such as the Agenda for Bangalore Infrastructure Development Task Force (ABIDe) and the Bangalore Development Authority (BDA) to design and implement civic and infrastructural projects

The 12th Schedule of the Constitution of India (Article 243 W), inserted by the constitution 74th Amendment Act of 1992, provides a list of 18 functions as belonging to the legitimate domain of Urban Local Bodies .

1. Urban Planning including town planning
2. Regulation of land use and construction of buildings
3. Planning for economic and social development
4. Roads and bridges
5. Water Supply for domestic, industrial and commercial purposes
6. Public health, sanitation, conservancy and Solid Waste Management
7. Fire services
8. Urban forestry, protection of the environment and promotion of ecological aspects
9. Safeguarding the interests of weaker sections of society, including the handicapped and the mentally retarded
10. Slum improvement and upgradation
11. Urban Poverty Alleviation
12. Provision of urban amenities and facilities such as parks, gardens and play grounds
13. Promotion of cultural, educational and aesthetic aspects
14. Burials and burial grounds, cremations, cremation Ghats/grounds, and electric crematoria
15. Cattle pounds, prevention of cruelty to animals
16. Vital statistics including registration of birth and deaths
17. Public amenities including street lighting, parking lots, bus stops and public conveniences

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18. Regulation of slaughter houses and tannerie

1.4.3 ZONES

BBMP is divided into ten zones, for the ease of administration each administered by a Zonal Commissioner:

Every zone has a Joint Commissioner, who is answerable to the BBMP commissioner. The decentralization hasn't been very effective in addressing the problems in administration. The end of 2013 saw discussions in various circles about dividing BBMP into more parts.

1.4.4 ROLES AND RESPONSIBILITIES

The Bruhat Bangalore Mahanagara Palike is the fourth largest Municipal Corporation in India, after the city corporations that administer Mumbai, Delhi and Chennai. The BBMP is responsible for infrastructural assets of the Greater Bangalore Metropolitan area, spread across 741 km^2, with a population of 6.8 million.

Its roles and responsibilities include the "orderly development of the city "zoning and building regulations, health, hygiene, licensing, trade and education, as well as quality of life issues such as lung spaces, water bodies, parks and greenery.

As part of this, Bruhat Bengaluru Mahanagara Palike (BBMP) is desirous of obtaining consultancy services for the preparation of Design Report for Individual house Building.

M/S **Civil Quality Consultants & Engineers** has been appointed as a consultant to perform the services. This Report deals with the approach, methodology, investigation details of project roads and the role of Consultants.

SCOPE OF WORK

The Scope of Services of the Consultancy includes the following:

Inventory and condition surveys for existing road & pavement, cross drainage

Structures and bridges

OBJECTIVES

Objectives of the project are as listed below:

- To conduct necessary survey studies, investigations and designs required to prepare Design Report for the selected Site in Bangalore city.
- To prepare BOQ, estimates and specifications based on the detailed designs.
- To prepare tender documents.

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- Rate analysis of schedule items, BOQ and Detailed estimates.
- Detailed Report and drawings.

1.5 BUILDING

A building or edifice is a structure with a roof and walls standing more or less permanently in one place, such as a house or factory. Buildings come in a variety of sizes, shapes and functions, and have been adapted throughout history for a wide number of factors, from building materials available, to weather conditions, to land prices, ground conditions, specific uses and aesthetic reasons. To better understand the term building compares the list of non building structures.

Buildings serve several needs of society primarily as shelter from weather, security, living space, privacy, to store belongings, and to comfortably live and work. A building as a shelter represents a physical division of the human habitat (a place of comfort and safety) and the outside (a place that at times may be harsh and harmful).

Ever since the first cave paintings, buildings have also become objects or canvasses of much artistic expression. In recent years, interest in sustainable planning and building practices has also become an intentional part of the design process of many new buildings.

Types

1.5.1 RESIDENTIAL

Single-family residential buildings are most often called houses or homes. Residential buildings containing more than one dwelling unit are called a duplex, apartment building to differentiate them from 'individual houses. A condominium is an apartment that the occupant owns rather than rents. Houses may also be built in pairs (semi-detached), in terraces where all but two of the houses have others either side; apartments may be built round courtyards or as rectangular blocks surrounded by a piece of ground of varying sizes. Houses which were built as a single dwelling may later be divided into apartments or bedsitters; they may also be converted to another use e.g. an office or a shop.

Building types may range from huts to multimillion-dollar high-rise apartment blocks able to hous housands of people. Increasing settlement density in buildings (and smaller distances betwee buildings) is usually a response to high ground prices resulting from many people wanting to live clo

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to work or similar attractors. Other common building materials are brick, concrete or combinations of either of these with stone.

Residential buildings have different names for their use depending if they are seasonal include holiday cottage (vacation home) or timeshare: size such as a cottage or great house; value such as a shack or mansion; manner of construction such as a log home or mobile home; proximity to the ground such as earth sheltered house, stilt house, or tree house. Also if the residents are in need of special care such as a nursing home, orphanage or prison; or in group housing like barracks or dormitories.

Historically many people lived in communal buildings called longhouses, smaller dwellings called pit-houses and houses combined with barns sometimes called house barns.

Buildings are defined to be substantial, permanent structures so other dwelling forms such as houseboats, yurts, and motor homes are dwellings but not buildings.

1.5.2 MULTI-STOREYS

A multi storey is a building that has multiple floors. Sydney is a city with many multi story buildings: One suburb which has been notorious for poor construction is Lane Cove. Many overseas investors have been sucked in a and bought poorly built buildings

1.5.3 COMPLEX

Sometimes a group of inter-related (and possibly inter-connected) builds are referred to as a complex – for example a housing complex, educational complex, hospital complex, etc

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER, RR NAGAR DIVISION

Name of Works : Providing Gallery to Musical Fountain in JP Park in Ward No 17, J P Park.

DETAILED ESTIMATE

Estimated Cost= 7,00,00,000.00

Sl No	Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
					L in m	B in m	D in m			
	BUILDING WORK									
	Earth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. **In ordinary/soft rock without blasting upto 1.5 m depth** (KPWD SR 2021-22, Volume-II, Item No 1.5.1, Page No.6)									
		Cum								
	For Galary									
	Footings			28	3.60	3.60	3.00	1088.64		
				28	2.80	2.80	3.00	658.56		
	Plinth Beam			28	7.30	0.80	0.60	98.11		
				1	112.00	0.60	0.60	40.32		
				1	112.00	0.60	0.60	40.32		
	Back Floor Bed									
				1	17.00	7.30	0.45	55.85		
				1	95.00	7.30	0.45	312.08		
							Total Quantity	2293.87	251.90	577826.36
	Rate Analysis									
	Basic Rate	229.00								
	Area Weightage @10%	22.90								
	Total Amount	251.90								
	Providing and laying in position **plain cement concrete Mix 1:3:6 (M10)** Using 40 mm nominal size graded crushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) (KWPD 2021-22, V-I, Item No.2.1.3, Page No.15)									
		Cum								
	For Galary									
	Footings			28	3.30	3.30	0.15	45.74		
				28	2.50	2.50	0.15	26.25		
	Plinth Beam			18	7.30	0.80	0.15	15.77		
				1	112.00	0.50	0.15	8.40		
				1	112.00	0.50	0.15	8.40		
	Back Floor Bed									
	Flogging Concrete			1	180.00	1.00	0.20	36.00		
				1	17.00	7.30	0.15	18.62		
				1	95.00	7.30	0.15	104.03		
							Total Quantity	263.20	6327.20	1665293.73
	Rate Analysis									
	Basic Rate	5752.00								
	Area Weightage @10%	575.20								
	Total Amount	6327.20								
	KSRB 2.8 Providing and filling in foundation with granite/trap broken metal of 100 MM and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour charges and with all lead and lift etc complete as per specification and the direction of the Engineer in charge I.No 6.4 Volume 2 SR 2021-22									
		Cum								
	For Galary									
	Footings			28	3.60	3.60	0.25	90.72		
				28	2.50	2.50	0.25	43.75		
	Plinth Beam			18	7.30	0.80	0.15	15.77		
				1	112.00	0.50	0.15	8.40		

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Description of work	Unit		Nos	Dimensions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
			1	112.00	0.50	0.15	8.40		
						Total Quantity	167.04	2817.10	470562.75
Rate Analysis									
Basic Rate	2561.00								
Area Weightage @10%	256.10								
Total Amount	2817.10								

Providing and laying in position **Reinforced cement concrete M25** Using 20 mm nominal size graded crushed coarse aggregates for **all Sub structures of building**, Irrigation works, Sub structure works of bridges, Dam works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.4.3, Page No.17)

	Cum								
For Galary									
Footings			28	3.00	3.00	0.75	189.00		
			28	2.20	2.20	0.60	81.31		
Column Upto Plinth			28	0.60	0.60	2.50	25.20		
			28	0.60	0.60	2.50	25.20		
Plinth Beam									
			28	7.30	0.60	0.45	55.19		
			1	112.00	0.60	0.45	30.24		
			1	112.00	0.60	0.45	30.24		
Cut off wall			1	112.00	0.20	0.75	16.80		
			2	112.00	0.20	0.75	33.60		
Entrance step			1	180.00	1.00	0.18	31.50		
						Total Quantity	518.28	7136.77	3698843.60
Rate Analysis									
Basic Rate	6299.00								
For Centering Work 3% from P No.115, It No.1b	188.97								
Area Weightage @10%	648.80								
Total Amount	7136.77								

Providing and laying in position **Reinforced cement concrete M25** Design Mix Using 20 mm nominal size graded crushed coarse aggregates for **all Super structures of building** , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.5.2, Page No.17)

	Cum								
For Galary									
Column Above Plinth			28	0.60	0.60	4.80	48.38		
			28	0.60	0.20	0.75	2.52		
			28	0.60	0.60	0.75	7.56		
Back Floor Bed									
			1	17.00	6.50	0.100	11.05		
			1	75.00	6.00	0.100	45.00		
						Total Quantity	114.51	7855.32	899544.7
Rate Analysis									
Basic Rate	6492.00								
For Centering Work 10% from P No.115, It No.8	649.20								
Area Weightage @10%	714.12								
Total Amount	7855.32								

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Description of work	Unit		Nos	Dimensions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
...ding and laying in position **Reinforced cement concrete** M25 Design Mix Using 20 mm nominal size ...hed crushed coarse aggregates for **all Super structures of building**, Road works, Water works, ...rrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed ...graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super ...plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all ...materials, quality confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, ...uring and all other appurtenances required to complete the work as per technical specifications. (The cost ...t steel reinforcement, dowel bars & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.5.1, ...age No.17)									
	Cum								
...or Galary									
...Vaist Beams			28	7.60	0.60	0.30	38.30		
...Beams			1	112.00	0.60	0.60	40.32		
...or Waist Slab			1	112.00	7.60	0.30	255.36		
...or Steps									
...or Landing			4	112.00	1.20	0.45	120.96		
...or Seating			5	112.00	0.50	0.45	63.00		
...or Sub Steps									
...or Landing	4		12	1.50	0.30	0.15	1.62		
						Total Quantity	519.56	10354.74	5379950.13
Rate Analysis									
Basic Rate	6492.00								
For Centering Work 45% from P No.115, It No.12 & 13	2921.40								
Area Weightage @10%	941.34								
Total Amount	10354.74								
...upplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / ...uperstructure complete as per Drawing and Technical Specifications. (KWPD 2021-22, V-III, Item No.9.3, ...age No.71)									
	Cum								
...onsidering 180Kgs per ...um of Concrete			1	1096.31		0.180	197.34		
						Total Quantity	197.34	103724.50	20468519.85
Rate Analysis									
Basic Rate	94295.00								
Area Weightage @10%	9429.50								
Total Amount	103724.50								
		R.O PLANT							
...arth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, ...undation of Bridges and such similar works, as per drawing and technical specifications, including setting ...t, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed ...isposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of ...) m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete ...e work. **In ordinary/soft rock without blasting upto 1.5 m depth** (KPWD SR 2021-22, Volume-II, Item ...o.1.5.1, Page No.6)									
	Cum								
...r R O Plant									
...olumn		9	4	1.70	1.70	1.50	156.06		
...r SSM Foundation		9	2	4.60	0.75	0.90	55.89		
		9	2	3.10	0.75	0.90	37.67		
						Total Quantity	249.62	251.90	62878.02
Rate Analysis									
Basic Rate	229.00								
Area Weightage @10%	22.90								
Total Amount	251.90								
...oviding and laying in position **plain cement concrete Mix 1:3:6 (M10)** Using 40 mm nominal size graded ...ushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed ...aded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not ...ceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all ...aterials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required ...complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be ...id separately) (KWPD 2021-22, V-I, Item No.2.1.3, Page No.15)									
	Cum								
...r R O Plant									
...olumn		9	4	1.70	1.70	0.15	15.61		

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Description of work	Unit		Nos	Dimensions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
CM Foundation		9	2	4.60	0.75	0.15	9.32		
		9	2	3.10	0.75	0.15	6.28		
or Flooring		9	1	4.60	3.10	0.15	10.25		
						Total Quantity	50.45	6327.20	319204.09

Rate Analysis	
Basic Rate	5752.00
Area Weightage @10%	575.20
Total Amount	6327.20

oviding and laying in position **Reinforced cement concrete M25** Design Mix Using 20 mm nominal size aded crushed coarse aggregates for **all Sub structures of building**, Irrigation works, Sub structure works bridges, Dam works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt ushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super lasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, cluding all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, bour, Usage charges of machinery, curing and all other appurtenances required to complete the work as er technical specifications. (The cost of steel reinforcement & formwork to be paid separately) (KWPD 2021 2 V-I, Item No.2.4.2, Page No.17)

	Cum						
or R O Plant							
olumn Footing		9	4	1.50	1.50	0.45	36.45
olumn upto Plinth		9	4	0.20	0.45	0.90	2.92
						Total Quantity	39.37

Rate Analysis	
Basic Rate	6285.00
or Centering Work 3% om P No.115, It No.1b	188.55
Area Weightage @10%	647.36
Total Amount	7120.91

oviding and laying in position **Reinforced cement concrete M25** Design Mix Using 20 mm nominal size aded crushed coarse aggregates for **all Super structures of building**, Road works, Water works, igation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed aded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super asticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all aterials, quality confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, ring and all other appurtenances required to complete the work as per technical specifications. (The cost steel reinforcement, dowel bars & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.5.2, ge No.17)

	Cum						
r R O Plant							
olumn Above Plinth		9	4	0.20	0.45	3.00	9.72
						Total Quantity	9.72

Rate Analysis	
Basic Rate	6492.00
For Centering Work 10% from P No.115, It No.8	649.20
Area Weightage @10%	714.12
Total Amount	7855.32

oviding and laying in position Reinforced cement concrete M25 Design Mix Using 20 mm nominal size aded crushed coarse aggregates for all Super structures of building, Road works, Water works, Irrigation orks & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded arse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, ality confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing d all other appurtenances required to complete the work as per technical specifications. (The cost of steel nforcement, dowel bars & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.5.2, Page o.17)

	Cum						
r R O Plant							
nth Beam		9	2	4.60	0.20	0.30	4.97
		9	2	3.10	0.20	0.30	3.35
of Beam		9	2	5.20	0.20	0.40	7.49
		9	2	3.10	0.20	0.40	4.46
of Slab		9	1	4.60	3.70	0.15	22.98

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Description of work	Unit		Nos	Dimensions in m L in m	B in m	D in m	Quantity	Rate in Rs	Amount in Rs
						Total Quantity	11.25	8569.44	370585.43
Rate Analysis									
Basic Rate	6492.00								
For Centering Work 20% from P No 115, II No 12 & 13	1298.40								
Area Weightage @10%	779.04								
Total Amount	8569.44								
Supplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as per Drawing and Technical Specifications. (KWPD 2021-22, V-III, Item No.9.3, Page No.71)									
	Cum								
Considering 125Kgs per Cum of Concrete		1	1	92.33		0.125	11.54		
						Total Quantity	11.54	103724.50	1197123.35
Rate Analysis									
Basic Rate	94295.00								
Area Weightage @10%	9429.50								
Total Amount	103724.50								
Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (KWPD 2021-22, V-II, Item No.5.4, Page No.9)									
	Cum								
For R O Plant									
For SSM Foundation		9	2	4.60	0.60	0.60	29.81		
		9	2	3.10	0.60	0.60	20.09		
For Flooring		9	2	4.60	0.45	0.60	22.36		
		9	2	3.10	0.45	0.60	15.07		
Steps		9	1	2.50	0.40	0.45	4.05		
		9	1	2.50	0.40	0.25	2.25		
						Total Quantity	93.62	5964.20	558356.48
Rate Analysis									
Basic Rate	5422.00								
Area Weightage @10%	542.20								
Total Amount	5964.20								
Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (KWPD 2021-22, V-II, Item No.6.32, Page No.17)									
	Sqm								
For R O Plant									
Wall		9	2	4.60		3.00	248.40		
		9	2	3.10		3.00	167.40		
Parapet Wall		9	2	4.60		0.75	62.10		
		9	2	3.10		0.75	41.85		
Deductions									
Door		-9	-1	2.50		2.60	58.50		
						Total Quantity	578.25	1322.20	764562.15
Rate Analysis									
Basic Rate	1202.00								
Area Weightage @10%	120.20								
Total Amount	1322.20								
Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.3.1, Page No.41)									
	Sqm								
For R O Plant									
Outside Plastering		9	2	4.80		4.85	419.04		
		9	2	3.30		4.85	288.09		
Inside Plastering		9	2	4.40		3.00	237.60		
		9	2	2.90		3.00	156.60		
		9	1	3.30		3.00	89.10		
Deductions									
Door		-18	-2	2.50		2.60	234.00		
						Total Quantity	1424.43	337.70	481030
Rate Analysis									
Basic Rate	307.00								

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Description of work	Unit		Nos	Dimensions in m			Quantity	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
Area Weightage @10%	30.70								
Total Amount	337.70								

Providing 12 mm cement plaster with cement mortar 1:4 (1 cement :4 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer in charge. (KWPD 2021-22, V-II, Item No.8.1.1, Page No.41)

	Sqm								
For R O Plant									
Ceiling		9	1	4.40	2.90		114.84		
						Total Quantity	114.84	239.80	27538.63

Rate Analysis	
Basic Rate	218.00
Area Weightage @10%	21.80
Total Amount	239.80

Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two coat applied @ 1.67 ltr/10 m² over and including priming coat of exterior primer applied @ 2.20 kg/10 m²) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.30, Page No.46)

	Sqm								
Vide qty from item no.	16						1424.43		
Vide qty from item no.	17						114.84		
						Total Quantity	1539.27	149.60	230274.79

Rate Analysis	
Basic Rate	136.00
Area Weightage @10%	13.60
Total Amount	149.60

Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge. (KWPD 2021-22, V-II, Item No.15.1, Page No.132)

	Sqm								
For R O Plant									
For Roof Slab		9	1	4.60	3.10		128.34		
						Total Quantity	128.34	819.50	105174.63

Rate Analysis	
Basic Rate	745.00
Area Weightage @10%	74.50
Total Amount	819.50

Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including grouting the joints with white cement and matching pigments etc., Complete. Size of Tile 500x500 mm (KWPD 2021-22, V-II, Item No.9.12.1, Page No.60)

	Sqm								
For R O Plant									
For Flooring		9	1	4.60	3.10		128.34		
		9	1	12.90		1.80	208.98		
Skirting		9	1	15.40		0.10	13.86		
Steps		9	1	2.50	1.50		33.75		
						Total Quantity	384.93	1125.30	433161.73

Rate Analysis	
Basic Rate	1023.00
Area Weightage @10%	102.30
Total Amount	1125.30

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Description		Nos	Dimensions in m			Quantity	Rate in Rs.	Amount in Rs.
			L in m	B in m	D in m			
Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and pointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing, necessary 27.5 cm long, wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters, 80x1.25 mm M.S. laths with 1.25 mm thick top cover including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.(KWPD 2021-22, V-II, Item No.11.6.1, Page No.76)								
	Sqm							
For R O Plant								
Rolling Shutter		9	1	2.50		2.60	58.50	
						Total Quantity	58.50	2761.00	161518.50
Rate Analysis								
Basic Rate	2510.00							
Area Weightage @10%	251.00							
Total Amount	2761.00							
		ELECTRIC WORK						
Supplying heavy gauge PVC conduit pipe..... dia confirming to IS 2509 with suitable size benda, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. (ELE SR 2021-22 Page-1, Item-1.1.2)								
	m							
a) 25mm dia 2mm thick								
Concealed Conduit System		9	50				450.00	
						Total Qty	450.00	80.00	36000.00
Supplying..... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. (ELE SR 2021-22 Page-1, Item-1.2.2)								
	m							
a) 25mm dia 2mm thick								
		9	50				450.00	
						Total Qty	450.00	70.00	31500.00
Groove cutting in the wall supplying.....dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out conduit wherever necessary. (ELE SR 2021-22 Page-1, Item-1.3.2)								
	m							
a) 25mm dia 2mm thick								
		9	38				342.00	
						Total Qty	342.00	80.00	27360.00
Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of approved make etc.(ELE SR 2021-22 Page-1, Item-1.4)								
	each							
a) 135x75x65mm		9	3				27.00	131.00	3537.00
b)180x90x65mm		9	3				27.00	155.00	4185.00
c)200x90x65mm		9	3				27.00	169.00	4563.00
Supplying and fixing PVC/metal conduit accessories.(3/5) (ELE SR 2021-22 Page-1, Item-1.5)								
a. Special type junction	each							
b)25mm junction box		9	5				45.00	51.00	2295.00
c. Deep junction box								
d) 32mm deep junction box		9	5				45.00	69.00	3105.00
Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work cpmplete.(ELE SR 2021-22 Page-2, Item-1.6)								
	m							
a)12xx"12"x3" (330x300x76mm		9	1				9.00	112.00	1008.00
b)12"x9"x3" (300x228x76)		9	1				9.00	105.00	945.00
Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. compelete for each outlet. (ELE SR 2021-22 Page-2, Item-2.1)								
	each							

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Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
a) Short point up to 3Mtr from tapping point to out let via switch(Each point		9	10				90.00	276.00	24840.00
b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch (Each point)		9	10				90.00	386.00	34740.00
Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. (ELE SR 2021-22 Page-3, Item-2.2)									
	each								
a) Short point up to 3Mtr from tapping point to out let via switch		9	10				90.00	251.00	22590.00
b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box		9	10				90.00	361.00	32490.00
Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. (ELE SR 2021-22 Page-5, Item-3.5.3)									
I.Group-A	each								
e) 6Moudule		9	9				81.00	244.00	19764.00
Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate..(ELE SR 2021-22 Page-5, Item-3.6)									
I.Using Group "A" materials	each								
a) 6Amps one way.		9	5				45.00	88.00	3960.00
i) 32Amps DP switch		9	2				18.00	375.00	6750.00
j) 6/16Amps universal socket		9	15				135.00	249.00	33615.00
Supplying and fixing 32Amps security and energy saving DP switch with key tag suitable to operate on 230 Volts, 50Hz AC supply &completely wired on existing box. (ELE SR 6 Page-6, Item-3.7)									
I.Using Group "A" materials	each								
		9	2				18.00	747.00	13446.00
Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. (ELE SR 2021-22 Page-3, Item-2.3)									
	m								
a. 1 sqmm.		9	150				1350.00	18.00	24300.00
b. 1.5 sqmm		9	150				1350.00	26.00	35100.00
C.6 sqmm		9	200				1800.00	87.00	156600.00
Supplying and fixing of PVC casing and capping on the wall or ceilng using necessary materials like bends, screws at an interval of 300mm .... Etc as required. (ELE SR 2021-22 Page-2, Item-1.8)									
	m								
a) 20mm		9	20				180.00	27.00	4860.00
Supplying PVC/GI flexible conduit pipe....mm dia fixing on surface over inverted wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and either end of the pipe terminated completely. (ELE SR 2021-22 Page-2, Item-1.9)									
	Nos								
a) 20mm		9	15				135.00	25.00	3375.00
Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws. (ELE SR 2021-22 Page-6, Item-3.10.2)									
	Nos								
b) 110mm		9	10				90.00	12.00	1080.00
Supplying a 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slap. (ELE SR 2021-22 Page-6, Item-3.11)									
	Nos								
		9	10				90.00	8.00	720.00
Supplying and fixing of slim box fitting, made out of CRCA Sheet metal body with locking type holder completely wired. Excluding Ballast & Flouresent Tube. 1 x 4' Tube light fitting. (ELE SR 2019-20 Page-41, Item-12.25.2)									
	each								
		9	4				36.00	310.00	11160.00

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Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
Supplying and fixing of T5 Fluorescent Tube with 14W power consumption with low 3mg Mercury content (below 40% glass content than T8 lamp & 20% less phosphor coating than T8 with initial lumen on 1350 lm, 3000 6500 deg Kelvin), rated Avg life (12 Hr Cycle) of greater than 35000 burning hours. Operating voltage range from 180V to 265V, 50Hz AC power Supply 28 watts Lamp (LLL-SR 2021-22 Page 40, Item 12.18.2)									
	each								
		9	4				36.00	172.00	6192.00
WATR SUPPLY WORK									
Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS: 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. (KPWD SR 2021-22, Volume-II, Item No.13.34)									
	Ltr								
		9	2000				18000.00		
						Total Quantity	18000.00	8.80	158400.00
Rate Analysis (Issue Rates as on 21-04-2021									
Basic Rate	8.00								
Area Weightage @10%	0.80								
Total Amount	8.80								
Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall **25 mm nominal dia** Pipes (KPWD SR 2021-22, Volume-II, Item No.13.31.3)									
	mtr								
		9	1	18.00			162.00		
						Total Quantity	162.00	347.60	56311.20
Rate Analysis (Issue Rates as on 21-04-2021									
Basic Rate	316.00								
Area Weightage @10%	31.60								
Total Amount	347.60								
Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall **32 mm nominal dia** Pipes (KPWD SR 2021-22, Volume-II, Item No.13.31.4)									
	mtr								
		9	1	15.00			135.00		
						Total Quantity	135.00	432.30	58360.50
Rate Analysis (Issue Rates as on 21-04-2021									
Basic Rate	393.00								
Area Weightage @10%	39.30								
Total Amount	432.30								
Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber 150 x 100 mm size P type With Non Modular common burnt clay bricks of designation 3.5 & with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight or cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: (KPWD SR 2021-22, Volume-II, Item No.13.13.39)									
	Each								
		9	2				18.00		
						Total Quantity	18.00	2528.90	45520.20
Rate Analysis (Issue Rates as on 21-04-2021									
Basic Rate	2299.00								
Area Weightage @10%	229.90								
Total Amount	2528.90								
R O Plant									
Design,Supply,Installation,commisioning of RO plant 2000litr per hour Capacity with softner (1Nos)									

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Description of work	Unit		Nos	Dimenstions in m			Quantity		Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m				
water Feed pump with starter,Type-Horizontal ,Centrifugal,Make-Kirloskar/Beacon /Sumo/CNP(SS),Material of Construction-Cast Iron,Head-36 MWC, Motor-3.0HPthree phase,Starter-Siemen make push botton type DOL Starter										
	9	2					18.00	Nos	24500.00	441000.00
ulti graded sand filter,type-verticle,Floor Mounted,Make-pentair/structural/ION EXCHANGE(INDIA) D/Zeolite/Aquario,min operating Pressure 2.0kg/cm2,Max. Operating Pressure -3.5kg/cm2, Treatment w Rate-6000liters/Hr,Type of valve size-Multiport,50NB,make-UKL/Initiative,Filtering Media - avel,Graded Sand & Pebble										
	9	2					18.00	Nos	33000.00	594000.00
tivated carbon Filter type-Verticle,Floor Mounted,Make-pentair/Structural/ION EXCHANGE(INDIA) D/Zeolite/Aquario,min operating Pressure 2.0kg/cm2,Max. Operating Pressure -3.5kg/cm2, Treatment w Rate-6000liters/Hr,Type of valve size-Multiport,50NB,make-UKL/Initiative,Filtering Media -Gravel, tivated Carbon & pebbles										
	9	1					9.00	Nos	62500.00	562500.00
ater Softner,Type-Verticle,Floor Mounted,Make-pentair/Structural/ION EXCHANGE(INDIA) D/Zeolite/Aquario,min operating Pressure 2.0kg/cm2,Max. Operating Pressure 3.5kg/cm2, Treatment w Rate-6000liters/Hr,Type of Resin INDION 220Na or Thermax T40										
	9	1					9.00	Nos	62000.00	558000.00
tiscalant Dosing System,Equipment Required-Electronic Dosing Pump with Solution Tank,make-Ion change (I) Ltd.,/ ASIA LMI/Zeolite,Material of Construction-PP(Polypropelene),Discharge @Max Back ssure-2.88litr/Hr @8bar,Discharge@Nominal Back Pressure=3.12Lit/Hr @ 4Bar,Chemical to be dosed-										
	9	1					9.00	Nos	85000.00	765000.00
cessories for Dosing System,Solution Tank-One No,Volume-100Litres,Material of Construction-DPE,Tank level Switch-One No.										
	9	1					9.00	Nos	42000.00	378000.00
verse Osmosis System,Type-Horizontal Skid,Floor Mounted,Permeate water-Minimum 00litr/hr,Maximum Permissable TDS in feed (PPM)-2500.										
	9	1					9.00	Nos	89000.00	801000.00
ssure Vessel,Material of Construction-FRP,Make-Advance Composite/Code Line.										
	9	1					9.00	Nos	85000.00	765000.00
embrane, Type-Brackish water . Nos required-Three.Make-TORAY JAPAN /Hydranautics/Filmtec/Tricep										
	9	1					9.00	Nos	88000.00	792000.00
gh pressure pump,Type- verticle,multistage,Make-GRUNDFOS,MOTOR-7.5 HP 3Phase, Model-CRN ies,Material of construction-SS316,starter-L&T/Seimens make push botton type DOL starter										
	9	1					9.00	Nos	55000.00	495000.00
cron Filter,Type -JUMBO,Material of construction of housing-poly propelene										
	9	1					9.00	Nos	78000.00	702000.00
truction, Wet panel -Ms powder coated., Mounted on R.O> skid, Low pressure switch-one No,High ssure Switch-one, Digitalconductivity Meter wiyh sensor , Indon brand-one No , ON/OFF selector itch -one No, High pressure System Pressure Gauge - one No, Auto Flush Timer -one No, Indication mps -one No, product Flow Meter- one No, Reject Flow Meter-one No,Reject Re-circolation Meter-one ,Alarm-one No										
	9	1					9.00	Nos	86000.00	774000.00
correction dosing System, Equipment Required-Electronic Dosing Pump with solution Tank, Make-Ion change(1) Ltd.,/ ASIA LMI/Zeolite,Material of construction -PP, Discharge @ max . Back Pressure-2.88 /Hr@8Bar.Discharge@Nominal Back Pressure-3.12 Lit/Hr@4Bar,Frequency-100 Strokes / Min, Chemical be dosed-PH Booster										
	9	1					9.00	Nos	83000.00	747000.00
ution Tank with level switch, Solution Tank-one No, Volume-100 Liters. Material of construction-HDPE. nk levelswitch-one No										
	9	1					9.00	Nos	15000.00	135000.00
ter-connecting pipe work ,Raw water tank to feed pump suction and feed pump delivery to R.O. Inlet to High pressure pump in let)and RO outlet to Treated water tank-food Grade PVC pipe 40mm NB, ake-Finolex/ supreme,High pressure pump outlet to membrane inlet-ss pipe of required size, proximate Length-35.0 Metre										
	9	1					9.00	Nos	78000.00	702000.0
tra violet system, Model-UVS-20,Make-Ion Exchange (I) Ltd.,/ ASIA LMI/Zeolite,ALFA Flow rate-00L/H										
	9	1					9.00	Nos	74500.00	670500.0

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Description of work	Unit		Nos	Dimensions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
Water strong tank, 2000 ltrs SS tank, to store RO water with required nozzles									
	9	1				9.00	Nos	80000.00	720000.00
Vending Machine ,Digital Swiping Card Type									
	9	1				9.00	Nos	35000.00	315000.00
Borewell									
Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S. by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30% (Measurement of overburden is restricted to the depth of casing pipe fixed excluding initial depth of 20M and projection above ground level). 2) A sum of Rs. 100/- is to be deducted for Dry Borewell towards yield test.									
SR 2021-22 Volume IV P.No 152 I.NO 4 S no O040A									
RR Nagara		No	9	9			9.00	5141.00	46269.00
Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete)									
SR 2021-22 Volume IV P.No 152 I.NO 1 S no O010 ABCDEFGHI									
0 to 50 m		Rmt	9	50.00			450.00	347.00	156150.00
50 to 100 m		Rmt	9	50.00			450.00	442.00	198900.00
100 to 150 m		Rmt	9	50.00			450.00	456.00	205200.00
50 to 200 m		Rmt	9	50.00			450.00	536.00	241200.00
00 to 250 m		Rmt	9	50.00			450.00	634.00	285300.00
50 to 300 m		Rmt	9	50.00			450.00	700.00	315000.00
00 to 350 m		Rmt	9	50.00			450.00	825.00	371250.00
50 to 400 m		Rmt	9	50.00			450.00	900.00	405000.00
00 to 420 m		Rmt	9	20.00			180.00	1129.00	203220.00
oviding and fixing **250mm dia PVC (casing pipe)** (page no.XXXI, SL no.909) (KPWD SR 2016-17)									
		Rmt	18	6.00			108.00	2600.00	280800.00
pply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness forming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and forming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in dom length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes be responsible straight end should be with ISI marking weighing 25.10kg/m.prices include Collar- ium duty.									
SR 2021-22 Volume IV P.No 154 I.NO 32 S no O160A									
		Rmt	9	50.00			450.00	1933.00	869850.00
ding and fixing MS casing collars as per IS 1239 (part-II) 1982 with all latest amendments if any for any he thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and shall be strictly as per IS 1239 (Part-II) 1982 with all amendments									
SR 2021-22 Volume IV P.No 154 I.NO 33 S no O170A									
		Each	75				75.00	150.00	11250.00
ling **175mm dia Bore Cap** CE (M)									
PRED SR 2012-13 (P.No.iii,I.No.85)									
		No	9				9.00	100.00	900.00
a suguna CRI **KIRLOSKAR** and other equipments **pumps 10.00 HP/7.5 KV (20 stage)**									
(Pg No. XLI. Sl.no.29) KPWD SR-2018-19									
		No	9				9.00	49955.00	449595.00

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Description of work	Unit		Nos	Dimensions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
ding and fixing in trenches galvinised/mild steel tube 50mm dia nominal bore with all fittings (earth									
k in trenches to be measured and paid for seperately) including cost of all materials, labour									
arges HOM of equipment and testing complete as per specifications. Specification No. KPS 13.2.11/13.6									
age no 92/It no.13.15)KPWD SR 2018-19									
		(Pg No. XI L Sl.no.29) KPWD SR-2018-19							
Basic rate		388.00							
A.W @ 6%		23.28							
Total		411.28							
		Rmt	9	350.00			3150.00	411.28	1295532.00
pplying and drawing 3 core flat PVC sheathed submersible pump cable maufactured with electrolytic									
ade copper with flexible copper with low resistance conductor confirming to table 3 class 5 to IS 8130-									
84 and virgin grade PVC insulation and power coating extruded PVC sheathed suitable for working									
oltage upto 1100 volts with specified IS 694:1990 and confirming to the attwached GTP of group A 3CX4.0									
mm									
		(PWD Ele SR 2014-15,P-12/It-2.10.3)							
dd 5mts for Switching		Rmt	18	345.00			6210.00	126.70	786807.00
owding and fixing in position 50mm Nominal bore non-return valve vertical type of approved make									
cluding cost of all materials,labour and HOM of equipment with all leads complete as per									
ecifications.(PWD SR 18-19,P-95/It no.13.62)									
Basic rate		1269							
A.W @ 6%		76.14							
Total		1345.14							
		No	9				9.00	1345.14	12106.00
roviding and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long									
rews etc. complete (New work) :									
		SR 2021-22 Volume II P.No 117 I.No 13.10.6							
Basic rate		543							
A.W @ 10%		54.3							
Total		597.3							
		No	9				9.00	597.30	5376.00
pplying and fixing 50mm GI Elbow.									
		(PWD SR 2018-19,P-XXXIX)							
		No	9				9.00	111.80	1006.00
pplying and fixing 50mm GI Nipple									
		(PWD SR 2018-19,P-XXXIX)							
		No	9				9.00	104.30	939.00
pplying and fixing 50mm GI Hose colleres									
		(PWD SR 2018-19,P-XXXIX)							
		No	522				522.00	103.00	53766.00
upplying and fixing 20" x 20" x 2.5" polished wood board made of not less than 15mm thick plank on both									
he sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered									
nverted wooden plugs screws etc.,									
		KPWD ELE SR 2019-20 P.no.44 / I no. 6.6.6							
		No	9				9.00	302.00	2718.00
upplying and fixing miniature circuit breakers on existing MCB distribution board using necessary fixing									
naterials and 'C' type curve indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10K									
nd complete wiring as required confirming to IEC 60898.(PWD Ele SR 2022-23 ,P-13/Sl no.5.17.7) 6-32 A									
TPN									
		No	9				9.00	1777.00	15993.00
upplying of TPST with rewirable porcelain channels in SM encloser made out of 14 SWG powder coated									
oint of approved colour 32 amps (PWD Ele SR 2022-23,P-10,It-5.5.1)									
		No	9				9.00	1944.00	17496.00
upplying and fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50									
HZ 12/24 V DC(PWD Ele SR 2022-23 P-14,Sl no.5.38)									
		No	9				9.00	464.00	4176.00
Suppling fully automatic star delta starter unit push button type with suitable wires 2 conductors and									
adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts									
phase and wired after fixing to the existing wooden board for motor. upto 12.5HP(PWD Ele SR 2022-23,p-									
10,Sl no.-5.2.1)									
		No	9				9.00	6912.00	62208.00
Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for									
motar up to 20 HP capacities.(PWD Ele SR 2022-23,p-10/Sl no.5.3)									
		No	9				9.00	805.00	7245.00

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Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
ng. for lighting/power circuit using one of ISI'S PVC insulated 1100V grade multistrand copper nductor single core wire in open or concealed system of wiring as per IS 694-1990 & conforming to the ached GTP of group A 4 sqmm (PWD Ele SR 2019-20,p-3,It-2.3.4(d)		Mtrs	9	20.00			180.00	59.00	10620.00
pplying fixing and wiring heavy duty low voltage capacitors conforming to IS 2834 phase 400/ 440 volts rade for power factor improvement of rotating machinery.(PWD Ele SR 2022-23 ,p-14/Sl no.5.37)		No	36				36.00	432.00	15552.00
pplying fixing, wiring, earth electrode for grounding conduits, LC cotouts and other equipments on the oter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit... The pit should be filled with qual proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 2mm dia (PWD Ele SR 2019-20,p-40,Sl no.6.1)		No	9				9.00	2999.70	26997.00
gging of trench of 0.36mtrs deepx0.5 mtrs wide refilling the trench to the required gorund level and nsolidating etc., complete (PWD Ele SR 2019-20,p-41,It-6.6.2) hard soil		Mtrs	9	8.00			72.00	102.00	7344.00
pplying laying 1.1 KV class LT UG cable having aluminium conductor PVC insulated extruded inner ethod galvanised steel strip (excep 2cx 10 sqmm wire armoured) confirming to IS-3975:1990 (No. of strip dicated in GTP) and extruded PVC outer sheathed armoured cable with specified IS-1554,part-1:1988 and nfirming to the attached GTP of group A 4 core 16 sq mm PWD Ele SR 2019-20,p-40,It-6.4.4)		Mtrs	9	10.00			90.00	150.00	13500.00
abour charge for laying 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe/ on wall / on oles as required in existing trench/duct. 6 sq mm to 16 sq mm(PWD Ele SR 2019-20,p-41,It-6.5.1)		No	9	25.00			225.00	11.88	2673.00
pplying and fixing class-A(medium duty) GI pipe wall thickness not less then 3.25mm on ole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1KV class 40mm(PWD e SR 2019-20,p-41,It-6.9.1)		Rmt	9	2.00			18.00	335.00	6030.00
pplying and fixing LT cast iron pot heads suitable for 1.1KV class UG cable filled with necessary bitumen insulating compound complete with terminals,clamps bolts and nuts and washer etc.,complete for 16 sq m as per specifications.(PWD Ele SR 2019-20,p-42,It-6.10.2)		No	9				9.00	270.00	2430.00
pplying and fixing porcelain fuse channel with cut out on the existing wooden block and wiring, mplete 63 amps(PWD Ele SR 2019-20,p-10,It-5.7.3)		No	27				27.00	372.00	10044.00
ismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces t exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled aterials and stacking serviceable and unserviceable materials separately									
PWD SR 2021-22 Volume III P.No 10 I.No 2.19									
Basic rate		422.00							
A.W @ 10%		42.2							
Total		464.2							
Borewell									
Water line		Cum	9	112	0.45	0.125	56.70		
							56.70	464.2	26320.00
rth work excavation for pipeline trenches in all kinds of by mechanical means above 600 mm trench idth as per drawing and technical specifications, including setting out, construction of shoring, strutting, rricading, caution lights, bracing, using sight rails & bonding rods at every 100 mm whevere necessary as rected, removal of slumps and other deleterious matter, dressing of sides and levelling the bottom of nch to the extent required , utilising the available excavated earth locally for the work and all other purtenances to complete in the following ata.									
PWD SR 2021-22 Volume I P.No 10 I.No 1.19.1									
Basic rate		342.00							
A.W @ 10%		34.2							
Total		376.2							
Borewell									
Water line		Cum	9	112	0.45	0.35	158.76		
							158.76	376.2	59726.00

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Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
Fixing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having ermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this cludes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete xternal work) - 50mm nominal OD pipes (KPWD SR 2018-19, P-99, It-13.87.6)									
PWD SR 2021-22 Volume II P.No 8 I.No : 13.33.6									
Corrigendum and Addendum order - 21-04-2022								1st	
Basic rate		702.00							
A.W @ 10%		70.2							
Total		772.20							
Borewell									
Water line		Mtr	9	112			1008.00		
							1008.00	772.2	778378.00
aking connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, cluding cutting and threading the pipe etc. complete : 25 to 40 mm nominal bore									
PWD SR 2021-22 Volume II P.No 115 I.No 13.1.1									
Basic rate		471.00							
A.W @ 10%		47.1							
Total		518.1							
Water line		Each	100.8				100.80	518.1	52224.00
oviding and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778 having ermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this cludes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints mplete. (external work). - 20mm nominal OD pipes (KPWD SR 2018-19, P-98, It-13.85.2)									
PWD SR 2021-22 Volume II P.No 8 I.No : 13.33.20								1st	
Corrigendum and Addendum order - 21-04-2022									
Basic rate		215.00							
A.W @ 10%		21.5							
Total		236.5							
Tap Connection			9	10.00			90.00		
							90.00	236.5	21285.00
oviding and fixing to wall, ceiling and floor Medium density polyethylene pipes 6.00 kgf/sq.cm orking pressure 25mm outside diameter with special flange, compression type fittings, wall clips, making od the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and sting complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9 (KPWD SR 2018-19, P-95, It-.67)									
Basic rate		129.00							
A.W @ 6%		7.74							
Total		136.74							
r other Purposes		Mtr	9	125.00			1125.00		
							1125.00	136.74	153833.00
efilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, mpacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. cluding cost of all labour complete as per specifications									
PWD SR 2021-22 Volume I P.No 7 I.No 1.10									
Basic rate		122.00							
A.W @ 10%		12.2							
Total		134.2							
0% of Qty Vide item		Cum					111.13	134.2	14914.00
oading and unloading of stone boulder/stone aggregates/sand/kanker/ moorum. KSRRB M100-Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding ne for haulage and return trip complete as per specification MORTH Chapter 1 (KPWD SR 2018-19,P-136, 17.1)									
em No:-17.1 Loading		57.00							
Conveying for 16km		40.96							
Total		97.96							
alance Qty Vide item o. 30+ 30% of 31 item		Cum					104.33		
							104.33	97.96	10220.00
oviding and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) 65 mm minal bore									
PWD SR 2021-22 Volume II P.No 115 I.No :13.4.5									
Basic rate		1390.00							
A.W @ 10%		139							
Total		1529							
For Main Line		Each	9				9.00	1529	13761.00
roviding and fixing brass stop cock of approved quality :									
PWD SR 2021-22 Volume II P.No 115 I.No :13.3.1									
Basic rate		326.00							

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Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
A.W @ 10%		32.6							
Total		358.6							
Tap Connection		Each	100.8				100.8		
							100.80	358.6	36147.00

viding and laying in position plain cement concrete for levelling course for all works in foundation. The nite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes chine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, luding all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and the other appurtenances required to complete the work as per technical specifications. (The cost of steel nforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded ushed coarse aggregates

PWD SR 2021-22 Volume I P.No 15 I.No :2.1.4

Basic rate		5926.0							
A.W @ 10%		592.6							
Total		6518.6							
Borewell									

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Description of work	Unit		Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
Water line		Cum	9	112	0.45	0.15	68.04		
							68.04	6518.6	443526.00
ESCOM deposit Charges and miscellaneous									
		No	9.00				9.00	12000.00	108000.00
								Construction Total Amount	5,81,33,071.49
								Add GST Charges 18%	1,04,63,952.87
								Add Detailed Project Report (DPR) and PMC Charges 2.0%	14,00,000.00
								Sub Total	6,99,97,024.36
								Miscellaneous and unforeseen charges etc.L.S	2,975.64
								Grand Total	7,00,00,000.00

Certificate:

The work spot has been inspected and found to be necessary

The provisions made in the estimate are necessary and minimum

The estimate is based on CSR of 2021-22 of Issue Rates on 07.04.2022

Assistant Engineer

Executive Engineer

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BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER, RR NAGAR DIVISION

e of Works : Drilling of Borewells , Providing Water Supply and Construction of RO Plants in Rajarajeshwari nagara Constituency

DETAILED ESTIMATE

Estimated Cost= 8,00,00,000.00

Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
R.O PLANT									
rth work excavation by manual means for drains,canals, waste weir draft, approach channels, key nch, foundation of Bridges and such similar works, as per drawing and technical specifications, cluding setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides otly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for use in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances quired to complete the work. **In ordinary/soft rock without blasting upto 1.5 m depth** (KPWD SR 2021-Volume-II, Item No.1.5.1, Page No.6)									
	Cum								
r R O Plant									
lumn		3	4	1.70	1.70	1.50	52.02		
r SSM Foundation		3	2	4.60	0.75	0.90	18.63		
		3	2	3.10	0.75	0.90	12.56		
						Total Quantity	**83.21**	**251.90**	**20959.34**
Rate Analysis									
Basic Rate	229.00								
Area Weightage @10%	22.90								
Total Amount	**251.90**								
oviding and laying in position **plain cement concrete Mix 1:3:6 (M10)** Using 40 mm nominal size aded crushed coarse aggregates for levelling course for all works in foundation. The anite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes achine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, cluding all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and the other appurtenances required to complete the work as per technical specifications. (The cost of steel inforcement & formwork shall be paid separately) (KWPD 2021-22, V-I, Item No.2.1.3, Page No.15)									
	Cum								
r R O Plant									
lumn		3	4	1.70	1.70	0.15	5.20		
r SSM Foundation		3	2	4.60	0.75	0.15	3.11		
		3	2	3.10	0.75	0.15	2.09		
r Flooring		3	1	4.60	3.10	0.15	6.42		
						Total Quantity	**16.82**	**6327.20**	**106401.36**
Rate Analysis									
Basic Rate	5752.00								
Area Weightage @10%	575.20								
Total Amount	**6327.20**								
oviding and laying in position **Reinforced cement concrete M20** Using 20 mm nominal size graded shed coarse aggregates for **all Sub structures of building,** Irrigation works, Sub structure works of dges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt shed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super sticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever cesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of evant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to mplete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid parately) (KWPD 2021-22, V-I, Item No.2.4.2, Page No.17)									
	Cum								
r R O Plant									
lumn Footing		3	4	1.50	1.50	0.45	12.15		
lumn upto Plinth		3	4	0.20	0.45	0.90	0.97		
						Total Quantity	**13.12**	**7088.05**	**93009.37**
Rate Analysis									
Basic Rate	6256.00								
For Centering Work 3% from P No.115, It No.1b	187.68								
Area Weightage @10%	644.37								
Total Amount	**7088.05**								

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Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
ding and laying in position **Reinforced cement concrete M20** Design Mix Using 20 mm nominal size ded crushed coarse aggregates for **all Super structures of building** , Road works, Water works, gation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed ded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super ncsers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of naterials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of hinery, curing and all other appurtenances required to complete the work as per technical ifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) (KWPD -22, V-I, Item No.2.5.1, Page No.17)									
	Cum								
O Plant									
mn Above Plinth		3	4	0.20	0.45	3.00	3.24		
						Total Quantity	3.24	7829.91	25368.91
Rate Analysis									
Basic Rate	6471.00								
Centering Work 10% om P No.115, It No.8	647.10								
rea Weightage @10%	711.81								
Total Amount	7829.91								
ling and laying in position **Reinforced cement concrete M20** Design Mix Using 20 mm nominal size d crushed coarse aggregates for **all Super structures of building** , Road works, Water works, ion works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed l coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super isers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of erials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of ery, curing and all other appurtenances required to complete the work as per technical ations. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) (KWPD , V-I, Item No.2.5.1, Page No.17)									
	Cum								
) Plant									
eam		3	2	4.60	0.20	0.30	1.66		
		3	2	3.10	0.20	0.30	1.12		
am		3	2	5.20	0.20	0.40	2.50		
		3	2	3.10	0.20	0.40	1.49		
ab		3	1	4.60	3.70	0.15	7.66		
						Total Quantity	14.42	8541.72	123128.89
te Analysis									
Basic Rate	6471.00								
tering Work 20% No.115, It No.12 & 13	1294.20								
Weightage @10%	776.52								
Total Amount	8541.72								
g, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / cture complete as per Drawing and Technical Specifications. (KWPD 2021-22, V-III, Item No.9.3, 71)									
	Cum								
ng 125Kgs per oncrete		1	1	30.78		0.125	3.85		
						Total Quantity	3.85	103724.50	399041.12
e Analysis									
Basic Rate	94295.00								
Weightage @10%	9429.50								
Total Amount	103724.50								
Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : nd) (KWPD 2021-22, V-II, Item No.5.4, Page No.9)									
	Cum								
ant									
undation		3	2	4.60	0.60	0.60	9.94		
		3	2	3.10	0.60	0.60	6.70		
g		3	2	4.60	0.45	0.60	7.45		
		3	2	3.10	0.45	0.60	5.02		

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Description of work	Unit	Nos	Nos	Dimensions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
		3	1	2.50	0.40	0.45	1.35		
		3	1	2.50	0.40	0.25	0.75		
						Total Quantity	31.21	5964.20	186118.83
Rate Analysis									
Basic Rate	5422.00								
Area Weightage @10%	542.20								
Total Amount	5964.20								

oviding and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having ock density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, bour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (KWPD 021-22, V-II, Item No.6.32, Page No.17)

	Sqm								
r R O Plant									
all		3	2	4.60		3.00	82.80		
		3	2	3.10		3.00	55.80		
rapet Wall		3	2	4.60		0.75	20.70		
		3	2	3.10		0.75	13.95		
eductions									
or		-3	-1	2.50		2.60	19.50		
						Total Quantity	192.75	1322.20	254854.05
Rate Analysis									
Basic Rate	1202.00								
Area Weightage @10%	120.20								
Total Amount	1322.20								

oviding 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including unding off corners wherever required smooth rendering, providing and removing scaffolding, cluding cost of materials, labour, curing complete as per specifications and as per directions of Engineer-charge. (KWPD 2021-22, V-II, Item No.8.3.1, Page No.41)

	Sqm								
r R O Plant									
tside Plastering		3	2	4.80		4.85	139.68		
		3	2	3.30		4.85	96.03		
ide Plastering		3	2	4.40		3.00	79.20		
		3	2	2.90		3.00	52.20		
		3	1	3.30		3.00	29.70		
ductions									
or		-6	-2	2.50		2.60	78.00		
						Total Quantity	474.81	337.70	160343.34
Rate Analysis									
Basic Rate	307.00								
Area Weightage @10%	30.70								
Total Amount	337.70								

viding 12 mm cement plaster with cement mortar 1:4 (1 cement: 4 fine sand) to brick masonry luding rounding off corners wherever required smooth rendering, providing and removing ffolding, including cost of materials, labour, curing complete as per specifications and as per directions Engineer-in-charge.. (KWPD 2021-22, V-II, Item No.8.1.1, Page No.41)

	Sqm								
R O Plant									
ling		3	1	4.40	2.90		38.28		
						Total Quantity	38.28	239.80	9179.54
Rate Analysis									
Basic Rate	218.00								
Area Weightage @10%	21.80								
Total Amount	239.80								

ishing walls with Acrylic Smooth exterior paint of required shade :New work (Two coat applied @ 1.67 10 m² over and including priming coat of exterior primer applied @ 2.20 kg/10 m²) with paint of roved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, rtar drops and foreign matter including preparing the surface even and sand paper smooth, cost of terials, labour complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-V-II, Item No.8.30, Page No.46)

	Sqm								
Vide qty from item no.	9						474.81		
Vide qty from item no.	10						38.28		
						Total Quantity	513.09	149.60	76758.26

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Description of work	Unit	Nos	Nos	Dimensions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
Rate Analysis									
Basic Rate	136.00								
Area Weightage @10%	13.60								
Total Amount	149.60								
...ding and laying water proofing treatment to the Roof with PU based single component elastomeric ...pol urethane based coating on New terrace/Chajjas/Sunken portion of WC/Bathroom, cold applied ...waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength ...ater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6kg per ...to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 ...protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include ...face preparation, making coving at Junction, Bore Packing, treatment of construction joints completely ...per specification & with a 10 years warranty on product & work from certified manufacturers as per the ...ction of the Engineer In charge. (KWPD 2021-22, V-II, Item No.15.1, Page No.132)									
	Sqm								
R O Plant									
For Root Slab		3	1	4.60	3.10		42.78		
						Total Quantity	42.78	819.50	35058.21
Rate Analysis									
Basic Rate	745.00								
Area Weightage @10%	74.50								
Total Amount	819.50								
...viding and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) ...h water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and ...des, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry ...3 kg/ m2 including grouting the joints with white cement and matching pigments etc., Complete. ...e of Tile 500x500 mm (KWPD 2021-22, V-II, Item No.9.12.1, Page No.60)									
	Sqm								
R O Plant									
For Flooring		3	1	4.60	3.10		42.78		
		3	1	12.90		1.80	69.66		
Skirting		3	1	15.40		0.10	4.62		
Steps		3	1	2.50	1.50		11.25		
						Total Quantity	128.31	1125.30	144387.24
Rate Analysis									
Basic Rate	1023.00								
Area Weightage @10%	102.30								
Total Amount	1125.30								
...lying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked ...ther through their entire length andb jointed together at the end by end locks, mounted on specially ...gned pipe shaft with brackets, side guides and arrangements for inside and outside locking with push ...pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire ...gs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and ...top cover of required thickness for rolling shutters. 80x1.25 mm M.S. laths with 1.25 mm thick top ...r including cost of materials, labour, usage charges of machinery complete as per specifications and ...r directions of the Engineer-in-Charge.(KWPD 2021-22, V-II, Item No.11.6.1, Page No.76)									
	Sqm								
...O Plant									
...g Shutter		3	1	2.50		2.60	19.50		
						Total Quantity	19.50	2761.00	53839.50
Rate Analysis									
Basic Rate	2510.00								
...rea Weightage @10%	251.00								
Total Amount	2761.00								
ELECTRIC WORK									
...lying heavy gauge PVC conduit pipe..... dia confirming to IS 2509 with suitable size benda, ...ion boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC ...stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using ...r gauge saddles at an interval of 700mm using NF screws. (ELE SR 2021-22 Page-1, Item-1.1.2)									
	m								
...mm dia 2mm thick									
...ealed Conduit System		3	50				150.00		
						Total Qty	150.00	80.00	12000.00

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Description of work	Unit	Nos	Nos	Dimensions in m L in m	B in m	D in m	Quantity	Rate in Rs	Amount in Rs.
fixing ... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, coupling, PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. (ELE SR 2021-22 Page-1, Item-1.2.2)									
a) 25mm dia 2mm thick	m								
		3	50				150.00		
							Total Qty 150.00	70.00	10500.00
Chase cutting in the wall supplying ....dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out conduit wherever necessary. (ELE SR 2021-22 Page-1, Item-1.3.2)									
b) 25mm dia 2mm thick	m								
		3	38				114.00		
							Total Qty 114.00	80.00	9120.00
Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of approved make etc.(ELE SR 2021-22 Page-1, Item-1.4)									
c) 135x75x65mm	each	3	3				9.00	131.00	1179.00
d)180x90x65mm		3	3				9.00	155.00	1395.00
e)200x90x65mm		3	3				9.00	169.00	1521.00
Supplying and fixing PVC/metal conduit accessories.(3/5) (ELE SR 2021-22 Page-1, Item-1.5)									
1. Special type junction bo	each								
b)25mm junction box		3	5				15.00	51.00	765.00
2. Deep junction box									
c) 32mm deep junction box		3	5				15.00	69.00	1035.00
Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work cpmplete.(ELE SR 2021-22 Page-2, Item-1.6)									
	m								
a)12xx"12"x3" (330x300x76mm		3	1				3.00	112.00	336.00
b)12"x9"x3" (300x228x76)		3	1				3.00	105.00	315.00
Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block, compelete for each outlet. (ELE SR 2021-22 Page-2, Item-2.1)									
	each								
a) Short point up to 3Mtr from tapping point to out let via switchEach point	3	10					30.00	276.00	8280.00
b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch (Each point)	3	10					30.00	386.00	11580.00
Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. (ELE SR 2021-22 Page-3, Item-2.2)									
	each								
a) Short point up to 3Mtr from tapping point to out let via switch box	3	10					30.00	251.00	7530.00
b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box	3	10					30.00	361.00	10830.00
Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. (ELE SR 2021-22 Page-5, Item-3.5.3)									
I.Group-A	each								
e) 6Moudule		3	9				27.00	244.00	6588.00
Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate..(ELE SR 2021-22 Page-5, Item-3.6)									
Using Group "A" aterials	each								
6Amps one way.		3	5				15.00	88.00	1320.00

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Description of work	Unit	Nos	Nos	Dimensions in m			Quantity	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
Amps DP switch		3	2				6.00	375.00	2250.00
16Amps universal		3	15				45.00	249.00	11205.00
ket									
pplying and fixing 32Amps security and energy saving DP switch with key tag suitable to operate on Volts, 50Hz AC supply &completely wired on existing box (ELE SR 6 Page-6, Item-3.7)									
sing Group "A"	each								
aterials		3	2				6.00	747.00	4482.00
oing for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire th low conductor resistance single core in open or concealed system of wiring with specified IS- d conforming to latest amendments (ELE SR 2021-22 Page-3, Item-2.3)									
	m								
1 sqmm		3	150				450.00	18.00	8100.00
1.5 sqmm		3	150				450.00	26.00	11700.00
4 sqmm		3	200				600.00	87.00	52200.00
pplying and fixing of PVC casing and capping on the wall or ceilng using necessary materials like nds, screws at an interval of 300mm .... Etc as required. (ELE SR 2021-22 Page-2, Item-1.8)									
	m								
20mm		3	20				60.00	27.00	1620.00
pplying PVC/GI flexible conduit pipe....mm dia fixing on surface over inverted wooden plugs or phill lugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws nd either end of the pipe terminated completely. (ELE SR 2021-22 Page-2, Item-1.9)									
	Nos								
20mm		3	15				45.00	25.00	1125.00
xtra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit sing necessary machine screws. (ELE SR 2021-22 Page-6, Item-3.10.2)									
	Nos								
110mm		3	10				30.00	12.00	360.00
pplying a 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using binding wire efore concreting a roof slap. (ELE SR 2021-22 Page-6, Item-3.11)									
	Nos								
		3	10				30.00	8.00	240.00
pplying and fixing of slim box fitting, made out of CRCA Sheet metal body with locking type holder ompletely wired. Excluding Ballast & Flouresent Tube. 1 x 4' Tube light fitting. (ELE SR 2019-20 Page-41, em-12.25.2)									
	each								
		3	4				12.00	310.00	3720.00
pplying and fixing of T5 Fluorescent Tube with 14W power consumption with low 3mg Mercury ontent & below 40% glass content than T8 lamp & 20% less phosphor coating than T8 with initial lumen n 1350 (for 3000-6500 deg Kelvin), rated Avg life (12 Hr. Cycle) of greater than 35000 burring hours. perating voltage range from 180V to 265V, 50Hz AC power Supply 28 watts Lamp (ELE SR 2021-22 age-40, Item-12.18.2)									
	each								
		3	4				12.00	172.00	2064.00
WATR SUPPLY WORK									
roviding and placing on terrace (at all floor levels) polyethylene water storage tank, IS: 12701 marked, ith cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow ipes but without fittings and the base support for tank. (KPWD SR 2021-22, Volume-II, Item No.13.34)									
	Ltr								
		3	2000				6000.00		
						Total Quantity	6000.00	8.80	52800.00

ate Analysis (Issue Rates as on 21-04-2021	
Basic Rate	8.00
Area Weightage @10%	0.80
Total Amount	8.80

roviding and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & old water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with lamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement nd testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall **25 nm nominal dia Pipes** (KPWD SR 2021-22, Volume-II, Item No.13.31.3)									
	mtr								

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Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
		3	1	18.00			54.00		
						Total Quantity	54.00	347.60	18770.40
te Analysis (Issue Rates as on 21-04-2021									
Basic Rate	316.00								
Area Weightage @10%	31.60								
Total Amount	347.60								
oviding and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & old water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with mps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement d testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall **32 m nominal dia Pipes** (KPWD SR 2021-22, Volume-II, Item No.13.31.4)									
	mtr								
		3	1	15.00			45.00		
						Total Quantity	45.00	432.30	19453.50
te Analysis (Issue Rates as on 21-04-2021									
Basic Rate	393.00								
Area Weightage @10%	39.30								
Total Amount	432.30								
oviding and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry amber 150 x 100 mm size P type With Non Modular common burnt clay bricks of designation 3.5 & th water tight C.I. cover with frame of 300 x300 mm size (inside) the weight or cover to be not less than 0 kg and frame to be not less than 2.70 kg as per standard design: (KPWD SR 2021-22, Volume-II, Item 13.39)									
	Each								
		3	2				6.00		
						Total Quantity	6.00	2528.90	15173.40
te Analysis (Issue Rates as on 21-04-2021									
Basic Rate	2299.00								
Area Weightage @10%	229.90								
Total Amount	2528.90								
				R O Plant					
sign,Supply,Installation,commisioning of RO plant 2000litr per hour Capacity with softner (1Nos)									
N water Feed pump with starter,Type-Horizontal ,Centrifugal.Make-Kirloskar/Beacon r/Sumo/CNP(SS),Material of Construction-Cast Iron,Head-36 MWC. Motor-3.0HPthree phase.Starter-T Siemen make push botton type DOL Starter									
	3	2				6.00	Nos	24500.00	147000.00
lti graded sand filter,type-verticle,Floor Mounted,Make-pentair/structural/ION CHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure -g/cm2, Treatment Flow Rate-6000liters/Hr,Type of valve size-Multiport,50NB,make-L/Initiative,Filtering Media -Gravel,Graded Sand & Pebble									
	3	2				6.00	Nos	33000.00	198000.00
ivated carbon Filter type-Verticle,Floor Mounted,Make-pentair/Structural/ION CHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure -g/cm2, Treatment Flow Rate-6000liters/Hr,Type of valve size-Multiport,50NB,make-L/Initiative,Filtering Media -Gravel, Activated Carbon & pebbles									
	3	1				3.00	Nos	62500.00	187500.00
er Softner,type-verticle,Floor Mounted,Make-pentair/Structural/ION EXCHANGE(INDIA))/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure 3.5kg/cm2, Treatment e Rate-6000liters/Hr Type of Resin INDION 220Na or Thermax T40									
	3	1				3.00	Nos	62000.00	186000.00
iscalant Dosing System,Equipment Required-Electronic Dosing Pump with Solution Tank,make-Ion hange (I) Ltd../ASIA LMI/Zeolite,Material of Construction-PP(Polypropelene),Discharge @Max Back sure-2.88litr/Hr @8bar,Discharge@Nominal Back Pressure=3.12Lit/Hr @ 4Bar,Chemical to be dosed-									
	3	1				3.00	Nos	85000.00	255000.00
essories for Dosing System,Solution Tank-One No,Volume-100Litres,Material of Construction-PE,Tank level Switch-One No.									
	3	1				3.00	Nos	42000.00	126000.00
erse Osmosis System,Type-Horizontal Skid,Floor Mounted,Permeate water-Minimum litr/hr,Maximum Permissable TDS in feed (PPM)-2500.									
	3	1				3.00	Nos	89000.00	267000.00

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Description of work	Unit	Nos	Nos	Dimensions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
ssure Vessel,Material of Construction FRP,Make-Advance Composite/Code Line									
	3	1				3.00	Nos	85000.00	255000.00
mbrane, Type-Brackish water , Nos required-Three,Make-TORAY JAPAN, lydranautics , Filmtec /Tricep									
	3	1				3.00	Nos	88000.00	264000.00
gh pressure pump,Type- verticle,multistage,Make-GRUNDFOS,MOTOR-7.5 HP 3Phase, Model-CRN es,Material of construction-SS316,starter-L&T/Seimens make push bottom type DOL starter									
	3	1				3.00	Nos	55000.00	165000.00
rom Filter,Type -JUMBO,Material of construction of housing-poly propelene									
	3	1				3.00	Nos	78000.00	234000.00
traction, Wet panel -Ms powder coated., Mounted on R.O> skid, Low pressure switch-one No,High ssure Switch-one, Digitalconductivity Meter wiyh sensor , Indon brand-one No , ON/OFF selector itch-one No, High pressure System Pressure Gauge - one No, Auto Flush Timer -one No, Indication mps-one No, product Flow Meter- one No, Reject Flow Meter-one No,Reject Re-circolation Meter-one Alarm-one No									
	3	1				3.00	Nos	86000.00	258000.00
correction dosing System, Equipment Required-Electronic Dosing Pump with solution Tank, Make- Exchange(I) Ltd../ ASIA LMI/Zeolite,Material of construction -PP, Discharge @ max . Back Pressure- 5 Lit/Hr@8Bar.Discharge@Nominal Back Pressure-3.12 Lit/Hr@4Bar,Frequency-100 Strokes / Min, emical to be dosed-PH Booster									
	3	1				3.00	Nos	83000.00	249000.00
ution Tank with level switch, Solution Tank-one No, Volume-100 Liters. Material of construction- PE. Tank levelswitch-one No									
	3	1				3.00	Nos	15000.00	45,000.00
er-connecting pipe work ,Raw water tank to feed pump suction and feed pump delivery to R.O. Inlet to High pressure pump in let)and RO outlet to Treated water tank-food Grade PVC pipe 40mm NB, ke-Finolex/ supreme,High pressure pump outlet to membrane inlet-ss pipe of required size, proximate Length-35.0 Metre									
	3	1				3.00	Nos	78000.00	234000.00
ra violet system, Model-UVS-20,Make-Ion Exchange (I) Ltd.,/ ASIA LMI/Zeolite,ALFA Flow rate- 0L/H									
	3	1				3.00	Nos	74500.00	223500.00
water strong tank, 2000 ltrs SS tank, to store RO water with required nozzles									
	3	1				3.00	Nos	80000.00	240000.00
nding Machine ,Digital Swiping Card Type									
	3	1				3.00	Nos	35000.00	105000.00
Borewell									
ophysical investigation at site for sinking borewells for supplying drinking water to the habitation ter through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or lumbergers's method, including reconnaissance survey of geological formation. Geophysical estigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, icating the location of the site, recommended depth of casing pipe required to seal the top consolidated formation including an extra depth of 1.0 metre in consolidated formation for proper ting of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, bable yield and other information required including transportation of instruments and accessories to rk site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes y) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30% (Measurement of overburden is tricted to the depth of casing pipe fixed excluding initial depth of 20M and projection above ground el). 2) A sum of Rs. 100/- is to be deducted for Dry Borewell towards yield test.									
SR 2021-22 Volume IV P.No 152 I.NO 4 S no O040A									
Nagara			3						
		No	3				3.00	5141.00	15423.00

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Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
...ing of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 Nft & above in all strata including over burdern upto 20 m Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete)									
SR 2021-22 Volume IV P.No 152 I.NO 1 S no O010 ABCDEFGHI									
0 to 50 m		Rmt	3	50.00			150.00	347.00	52050.00
50 to 100 m		Rmt	3	50.00			150.00	442.00	66300.00
100 to 150 m		Rmt	3	50.00			150.00	456.00	68400.00
150 to 200 m		Rmt	3	50.00			150.00	536.00	80400.00
200 to 250 m		Rmt	3	50.00			150.00	634.00	95100.00
250 to 300 m		Rmt	3	50.00			150.00	700.00	105000.00
300 to 350 m		Rmt	3	50.00			150.00	825.00	123750.00
350 to 400 m		Rmt	3	50.00			150.00	900.00	135000.00
400 to 420 m		Rmt	3	20.00			60.00	1129.00	67740.00
Providing and fixing **250mm dia PVC (casing pipe)** (page no.XXXI, SL no.909) (KPWD SR 2016-17)									
		Rmt	6	6.00			36.00	2600.00	93600.00
Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.prices include Collar-Medium duty.									
SR 2021-22 Volume IV P.No 154 I.NO 32 S no O160A									
		Rmt	3	50.00			150.00	1933.00	289950.00
Providing and fixing MS casing collars as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments									
SR 2021-22 Volume IV P.No 154 I.NO 33 S no O170A									
		Each	25				25.00	150.00	3750.00
Providing **175mm dia Bore Cap CE (M)**									
PRED SR 2012-13 (P.No.iii,I.No.85)									
		No	3				3.00	100.00	300.00
Atalanta suguna CRI **KIRLOSKAR** and other equipments **pumps 10.00 HP/7.5 KV (20 stage)**									
(Pg No. XLI. Sl.no.29) KPWD SR-2018-19									
		No	3				3.00	49955.00	149865.00
Providing and fixing in trenches **galvinised/mild steel tube 50mm dia nominal bore** with all fittings (earth work in trenches to be measured and paid for seperately) including cost of all materials, labour charges,HOM of equipment and testing complete as per specifications. Specification No. KBS 13.2.14/13.6 (page no.92/It no.13.15)KPWD SR 2018-19.									
(Pg No. XLI. Sl.no.29) KPWD SR-2018-19									
Basic rate		388.00							
A.W @ 6%		23.28							
Total		411.28							
		Rmt	3	345.00			1035.00	411.28	425675.00
Supplying and drawing **3 core flat PVC** sheathed submersible **pump cable** maufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and power coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and confirming to the attwached GTP of group A 3CX4.0 sq.mm									
(PWD Ele SR 2014-15,P-12/It-2.10.3)									
Add 5mts for Switching		Rmt	6	350.00			2100.00	126.70	266070.00
Providing and fixing in position **50mm Nominal bore non-return valve** vertical type of approved make including cost of all materials,labour and HOM of equipment with all leads complete as per specifications.(PWD SR 18-19,P-95/It no.13.62)									
Basic rate		1269							
A.W @ 6%		76.14							
Total		1345.14							
		No	3				3.00	1345.14	4035.00

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Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs	Amount in Rs.
				L in m	B in m	D in m			
...fixing GI Union in GI pipe including cutting and threading the pipe and making long screws etc. complete (New work) :									
SR 2021-22 Volume II P.No 117 I.No 13.10.6									
Basic rate		543							
A/W @ 10%		54.3							
Total		597.3							
		No	3				3.00	597.30	1792.00
Supplying and fixing 50mm GI Elbow.									
(PWD SR 2018-19,P-XXXIX)									
		No	3				3.00	111.80	335.00
Supplying and fixing 50mm GI Nipple									
(PWD SR 2018-19,P-XXXIX)									
		No	3				3.00	104.30	313.00
Supplying and fixing 50mm GI Hose colleres									
(PWD SR 2018-19,P-XXXIX)									
		No	174				174.00	103.00	17922.00
Supplying and fixing 20" x 20" x 2.5" polished wood board made of not less than 15mm thick plank on both the sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.,									
KPWD ELE SR 2019-20 P.no.44 / I no. 6.6.6									
		No	3				3.00	302.00	906.00
Supplying and fixing miniature circuit breakers on existing MCB distribution board using necessary fixing materials and 'C' type curve indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.(PWD Ele SR 2022-23 ,P-13/Sl no.5.17.7) 6-32 A TPN									
		No	3				3.00	1777.00	5331.00
Supplying of TPST with rewirable porcelain channels in SM encloser made out of 14 SWG powder coated point of approved colour 32 amps (PWD Ele SR 2022-23,P-10,It-5.5.1)									
		No	3				3.00	1944.00	5832.00
Supplying and fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50 HZ 12/24 V DC(PWD Ele SR 2022-23 P-14,Sl no.5.38)									
		No	3				3.00	464.00	1392.00
Suppling fully automatic star delta starter unit push button type with suitable wires 2 conductors and adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts phase and wired after fixing to the existing wooden board for motor. upto 12.5HP(PWD Ele SR 2022-23,p-10,Sl no.-5.2.1)									
		No	3				3.00	6912.00	20736.00
Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motar up to 20 HP capacities.(PWD Ele SR 2022-23,p-10/Sl no.5.3)									
		No	3				3.00	805.00	2415.00
Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694:1990 & conforming to the attached GTP of group A. 4 sqmm (PWD Ele SR 2019-20,p-3,It-2.3.4(d)									
		Mtrs	3	20.00			60.00	59.00	3540.00
Supplying fixing and wiring heavy duty low voltage capacitors conforming to IS 2834 phase 400/440 volts grade, for power factor improvement of rotating machinery.(PWD Ele SR 2022-23 ,p-14/Sl no.5.37)									
		No	12				12.00	432.00	5184.00
Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cotouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia (PWD Ele SR 2019-20,p-40,Sl no.6.1)									
		No	3				3.00	2999.70	8999.00
Digging of trench of 0.36mtrs deepx0.5 mtrs wide refilling the trench to the required gorund level and consolidating etc., complete (PWD Ele SR 2019-20,p-41,It-6.6.2) hard soil									
		Mtrs	3	8.00			24.00	102.00	2448.00
Supplying laying 1.1 KV class LT UG cable having aluminium conductor PVC insulated extruded inner shethed galvanised steel strip (excep 2cx 10 sqmm wire armoured) confirming to IS-3975:1990 (No. of strip indicated in GTP) and extruded PVC outer sheathed armoured cable with specified IS-1554,part-1:1988 and confirming to the attached GTP of group A 4 core 16 sq mm PWD Ele SR 2019-20,p-40,It-6.4.4)									
		Mtrs	3	10.00			30.00	150.00	4500.00

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Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
ar charge for laying 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe/ on wall / on oles as required in existing trench/duct 6 sq mm to 16 sq mm(PWD Ele SR 2019-20,p-41,It-6.5.1)		No	3	25.00			75.00	11.88	891.00
pplying and fixing class-A(medium duty) GI pipe wall thickness not less then 3.25mm on ole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1KV class 40mm(PWD le SR 2019-20,p-41,It-6.9.1)		Rmt	3	2.00			6.00	335.00	2010.00
pplying and fixing LT cast iron pot heads suitable for 1.1KV class UG cable filled with necessary itumen / insulating compound complete with terminals,clamps bolts and nuts and washer etc.,complete r 16 sq mm as per specifications.(PWD Ele SR 2019-20,p-42,It-6.10.2)		No	3				3.00	270.00	810.00
pplying and fixing porcelain fuse channel with cut out on the existing wooden block and wiring, omplete 63 amps(PWD Ele SR 2019-20,p-10,It-5.7.3)		No	9				9.00	372.00	3348.00
ismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces ot exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled aterials and stacking serviceable and unserviceable materials separately									
PWD SR 2021-22 Volume III P.No 10 I.No 2.19									
Basic rate		422.00							
A.W @ 10%		42.2							
Total		464.2							
Borewell									
Water line		Cum	3	106	0.45	0.15	21.47		
							21.47	464.2	9964.00
arth work excavation for pipeline trenches in all kinds of by mechanical means above 600 mm trench idth as per drawing and technical specifications, including setting out, construction of shoring, strutting, arricading, caution lights, bracing, using sight rails & bonding rods at every 100 mm whevere necessary s directed, removal of slumps and other deleterious matter, dressing of sides and levelling the bottom of rench to the extent required , utilising the available excavated earth locally for the work and all other ppurtenances to complete in the following trata.									
PWD SR 2021-22 Volume I P.No 10 I.No 1.19.1									
Basic rate		342.00							
A.W @ 10%		34.2							
Total		376.2							
Borewell									
Water line		Cum	3	106	0.45	0.40	57.24		
							57.24	376.2	21534.00
roviding and fixing **Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778, having hermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this ncludes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. xternal work) - **50mm nominal** OD pipes (KPWD SR 2018-19, P-99, It-13.87.6)									
WD SR 2021-22 Volume II P.No 8 I.No : 13.33.6								1st	
Corrigendum and Addendum order - 21-04-2022									
Basic rate		702.00							
A.W @ 10%		70.2							
Total		772.20							
Borewell									
Water line		Mtr	3	106			318.00		
							318.00	772.2	245560.00
laking connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing e, including cutting and threading the pipe etc. complete : 25 to 40 mm nominal bore									
PWD SR 2021-22 Volume II P.No 115 I.No 13.1.1									
Basic rate		471.00							
A.W @ 10%		47.1							
Total		518.1							
Water line		Each	31.8				31.80	518.1	16476.00
rovding and fixing **Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778 having hermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this ncludes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints omplete. (external work). - **20mm nominal** OD pipes (KPWD SR 2018-19, P-98, It-13.85.2)									
PWD SR 2021-22 Volume II P.No 8 I.No : 13.33.20								1st	
Corrigendum and Addendum order - 21-04-2022									

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Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
Basic rate		215.00							
A.W @ 10%		21.5							
Total		236.5							
Tap Connection			3	10.00			30.00		
							30.00	236.5	7095.00
Providing and fixing to wall, ceiling and floor Medium density polyethylene pipes 6.00 kgf/sq cm working pressure 25mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9 (KPWD SR 2018-19, P-95, IL-13.67)									
Basic rate		129.00							
A.W @ 6%		7.74							
Total		136.74							
for other Purposes		Mtr	3	125.00			375.00		
							375.00	136.74	51278.00
Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications									
PWD SR 2021-22 Volume I P.No 7 I.No 1.10									
Basic rate		122.00							
A.W @ 10%		12.2							
Total		134.2							
70% of Qty Vide item		Cum					40.07	134.2	5377.00
Loading and unloading of stone boulder/stone aggregates/sand/kanker/ moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (KPWD SR 2018-19,P-136, iL17.1)									
Item No:-17.1 Loading		57.00							
Conveying for 16km		40.96							
Total		97.96							
Balance Qty Vide item No. 30+ 30% of 31 item		Cum					38.64		
							38.64	97.96	3785.00
Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) 65 mm nominal bore									
PWD SR 2021-22 Volume II P.No 115 I.No :13.4.5									
Basic rate		1390.00							
A.W @ 10%		139							
Total		1529							
For Main Line		Each	3				3.00	1529	4587.00
Providing and fixing brass stop cock of approved quality :									
PWD SR 2021-22 Volume II P.No 115 I.No :13.3.1									
Basic rate		326.00							
A.W @ 10%		32.6							
Total		358.6							
Tap Connection		Each	31.8				31.8		
							31.80	358.6	11403.00
Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates									
PWD SR 2021-22 Volume I P.No 15 I.No :2.1.4									
Basic rate		5926.0							
A.W @ 10%		592.6							
Total		6518.6							
Borewell									
Water line		Cum	3	106	0.45	0.15	21.47		
							21.47	6518.6	139922.00
BESCOM deposit Charges and miscellaneous									
		No	3.00				3.00	12000.00	36000.00
For Asphalt Road									

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Description of work	Unit	Nos	Nos	Dimensions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
Ex. work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work.(Page No:8, I No: 12 of Vol-1 CSR 2021-22) In all kinds of soils upto 300 mm depth									
New Asphalt Rd		Cum							
V1250 (Gangappa Road			1	233.00	6.60		1537.80		
V0988 7th Cross Road			1	173.00	3.60		622.80		
V1265			1	17.50	4.50		78.75		
V0980 6th Cross			1	272.00	5.60		1523.20		
V0982 (Om shakthi catering			1	247.00	4.10		1012.70		
ervice to cross road)									
V1257 (Shivashakthi Nilaya			1	84.00	3.50		294.00		
o Dead end)									
V0994 (SVK			1	176.00	5.80		1020.80		
alyanaMantapa to									
amruddi Nilaya									
V0996 (Titan Showroom to			1	177.00	4.10		725.70		
Dead End)									
V1102 (AquaCentre to Dead			1	162.00	4.00		648.00		
nd)									
V1100 2nd Cross (#217 to			1	137.00	4.80		657.60		
Mobile tower)									
V1257 (2nd cross Jnana			1	157.00	5.10		800.70		
yothinagar)									
V1251 (Vandana Nilaya to			1	290.00	5.40		1566.00		
Dead end)									
V1255 (#64			1	115.00	4.60		529.00		
Nanjundeshwara Nilaya to									
Dead End)									
V0986			1	95.00	5.00		475.00		
ChannaBasaveshwara									
Nilaya to Dead End)									
V1243 (Siddappaji Rice			1	324.00	6.50		2106.00		
Traders to Dead End)			1	88.00	5.00		440.00		
V1273			1	90.00	5.20		468.00		
V1271									
V1267 (4th Cross Dhanush			1	41.00	5.00		205.00		
ailor to Dead End)									
V0984 (#47/48 Manasa			1	195.00	6.00		1170.00		
Nilaya to 9th cross road)									
V1289 (L & C construction			1	65.00	4.00		260.00		
o Dead End)									
V1283(Veerabadra Nilaya to			1	42.50	4.20		178.50		
Dead End)									
V1277(Vishnu Nilaya to			1	43.00	4.20		180.60		
Dead End									
V1275(Venkatadri Nilaya to			1	42.00	5.20		218.40		
Dead end									
V1255(Nanjundeshwara			1	220.00	4.30		946.00		
arniture to Dead End)									
V1279 (2nd main road to			1	134.00	7.50		1005.00		
amruddhi nilaya			1	148.00	6.70		991.60		
V0978 4th Cross Road			1	34.00	6.50		221.00		
V1287									
V0980(3rd cross road to sri			1	134.00	6.10		817.40		
rishna temple road									
V0982 (2nd Cross road to			1	208.00	6.30		1310.40		
Dead End)			1	122.00	5.50		671.00		
V0952									
V1393(Cotton Expo to Dead			1	136.00	5.10		693.60		
nd)									
V1395(Fastrack Shop to			1	114.00	5.50		627.00		
Dead end)									
V1397 (Vivo Mobile shop to			1	135.00	6.00		810.00		
Dead end)									
V1399 (SBI Bank to Dead			1	78.00	3.80		296.40		
nd)									
V1237 (HMR School to			1	81.00	5.70		461.70		
Dead end)									
V0960 (Cross Road to Dead			1	76.00	5.50		418.00		
End)									
V0964 (Balaji Nilaya to			1	87.00	5.50		478.50		
Dead End)									

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Description of work	Unit	Nos	Nos	Dimensions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
W Vijayalakshmi Nilaya to Dead End)			1	58.00	4.60		266.80		
W0944 Cross Road to dead end			1	31.00	4.60		142.60		
W0944 Ishwarya Nilaya to Dead end			1	37.00	6.50		240.50		
W0944 550 to Dead End			1	37.00	6.80		251.60		
W0944(Ramji&RamRajeshwari vegetable shop to Dead End)			1	503.00	6.00		3018.00		
W1181(6thmain Nanjyothinagara)			1	218.00	5.70		1242.60		
W0934 (Usha Swadeshi shop to Dead End)			1	71.00	4.20		298.20		
W0948 (10th main road Sri Kanakshi Nilaya to Dead end)			1	70.00	5.20		364.00		
W1195 9th A cross			1	143.00	6.70		958.10		
W1197 9th cross			1	520.00	6.30		3276.00		
W1191 13th A Cross road			1	258.00	6.60		1702.80		
W1187 & W1189 13th B cross road			1	230.00	6.00		1380.00		
W1193 9th B cross to dead end			1	55.00	6.00		330.00		
W1201 & W1199			1	73.00	5.80		423.40		
W1203 (#7 Rathna Nilaya to Dead End)			1	100.00	5.00		500.00		
W1207 8th B cross (Vigneshwara stationary shop to Dead End)			1	120.00	5.00		600.00		
W1211 8th cross			1	180.00	6.60		1188.00		
W1213 (SLN Provision Store to Dead End)			1	146.00	4.00		584.00		
W1217 (8th A cross road)			1	182.00	6.80		1237.60		
W1215 (8th D cross)			1	132.00	3.60		475.20		
W1219(Hair beauty spa to Sukrith Nivas)			1	184.00	5.00		920.00		
W1219 9th Main Road			1	117.00	6.10		713.70		
W1221 7th Cross			1	128.00	4.10		524.80		
W1223			1	148.00	4.20		621.60		
W1062 & W1237 (#17 Akka thangi Nilaya to Dead End)			1	176.00	4.50		792.00		
W1235 & W1233 4th Cross Road			1	409.00	5.00		2045.00		
W1227 Naveen Electrical to Dead End			1	180.00	4.30		774.00		
W1229 5th Cross road			1	178.00	5.20		925.60		
W0944 (Surabi Nilaya to Dead end)			1	118.00	6.70		790.60		
W1177 12th main road (#Renuka Nilaya to Dead end)			1	151.00	6.40		966.40		
W0936 (#13 to 12 th main cross road)			1	62.00	6.50		403.00		
W0923 11th Cross (Ashraya house to Dead End)			1	424.00	6.80		2883.20		
W0942 10th Main Road (Saikrupa nilaya to Dead end)			1	70.00	5.30		371.00		
W0946 9th main (#43 Vaathamaja Nilaya to Dead End)			1	108.00	5.40		583.20		
W0950 (#shivakrupa nilaya to Dead End)			1	124.00	4.20		520.80		
W0958 (Sri adi shakthi nilaya to Dead End)			1	144.00	5.60		806.40		
W1169 (11th A1 cross)			1	37.50	5.00		187.50		
W1171 (11th A2 cross)			1	30.00	5.60		168.00		
W1185 (11th A3 cross)			1	27.00	5.50		148.50		
W1173 (11th A4 cross)			1	20.00	6.00		120.00		
W0771 5th main road			1	100.00	9.00		900.00		
W0931 (Jeevan Condiments to Dead End)			1	153.00	6.00		918.00		
W0758 12th Cross road			1	174.00	6.35		1104.90		
W0760 & W0762 11th Cross			1	205.00	6.80		1394.00		
							64527.75		

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Description of work	Unit	Nos	Nos	Dimensions in m			Quantity	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
Consider 30 % For Poholes & Cutting Portion			1	19358.33		0.25	4839.58		
W1048 3rd Cross Road	65.00						4839.58	161.10	779656.54
WT37 (Sathya Diagnostics to Dead End)	89.60								
Area Wieght age @ 10%	6.50								
Total Rate in Rs	161.10								

Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory roller to achieve the desired density, complete as per clause 401 Granular Sub-Base Plant Mix Method Materia Item No 4.1(V) Page No 19, Vol III SR-21-22

New Asphalt Rd		Cum							
For Consider 30 % For Poholes & Cutting Portion			1	19358.33		0.15	2903.75		
							2903.75	2581.70	7496608.15
Basic rate	2347.00								
Area Wieght age @ 10%	234.70								
Total Rate in Rs	2581.70								

Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Wet Mix Macadam (Plant mix method) (Page No.24, I.No. 4.27 of Vol-3 SR 2021-22).

New Asphalt Rd		Cum							
For Consider 30 % For Poholes & Cutting Portion			1	19358.33		0.175	3387.71		
							3387.71	2633.40	8921187.28
Basic rate	2394.00								
Area Wieght age @ 10%	239.40								
Total Rate in Rs	2633.40								

Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (Page No.29, I.No. 5.1 of Vol-3 SR 2021-22).Issue Rate 07/07/2022

New Asphalt Rd		Sqm							
For Consider 30 % For Poholes & Cutting Portion			1	19358.33			19358.33		
							19358.33	46.20	894354.62
Basic rate	42.00								
Area Wieght age @ 10%	4.20								
Total Rate in Rs	46.20								

Bituminous Macadam Grading - II for traffic <20 MSA Providing and laying Bituminous Macadam with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading premixed with bituminous binder VG-30 @ 3.4% by weight of mix, transported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction (Page No.31, I.No. 5.8 C of Vol-3 SR 2021-22).Issue Rate 07/07/2022

New Asphalt Rd		Cum							
For Consider 30 % For Poholes & Cutting Portion			1	19358.33		0.05	967.92		
							967.92	8104.80	7844767.62
Basic rate	7368.00								
Area Wieght age @ 10%	736.80								
Total Rate in Rs	8104.80								

Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom(Page No.29, I.No. 5.3 of Vol-3 SR 2021-22).

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Description of work	Unit	Nos	Nos	Dimensions in m			Quantity	Rate in Rs.	Amount in Rs.
		Sqm		L in m	B in m	D in m			
New Asphalt Rd			1	233.00	6.60		1537.80		
W1250 Gangappa Road			1	173.00	3.60		622.80		
W0988 7th Cross Road			1	17.50	4.50		78.75		
W1285			1	272.00	5.60		1523.20		
W0980 6th Cross									
W0982 (Om shakthi catering service to cross road)			1	247.00	4.10		1012.70		
W1257 (Shivashakthi Nilaya to Dead end)			1	84.00	3.50		294.00		
W0984 (SCK Kalyana Mantapa to Samruddi Nilaya			1	176.00	5.80		1020.80		
W0986 (Titan Showroom to Dead End)			1	177.00	4.10		725.70		
W1102 (AquaCentre to Dead End)			1	162.00	4.00		648.00		
W1100 2nd Cross (#217 to Mobile tower)			1	137.00	4.80		657.60		
W1257 (2nd cross Jnana Jyothinagar)			1	157.00	5.10		800.70		
W1251 (Vandana Nilaya to Dead end)			1	290.00	5.40		1566.00		
W1255 (#64 Nanjundeshwara Nilaya to Dead End)			1	115.00	4.60		529.00		
W0986 (ChannaBasaveshwara Nilaya to Dead End)			1	95.00	5.00		475.00		
W1243 (Siddappaji Rice Traders to Dead End)			1	324.00	6.50		2106.00		
W1273			1	88.00	5.00		440.00		
W1271			1	90.00	5.20		468.00		
W1267 (4th Cross Dhanush tailor to Dead End)			1	41.00	5.00		205.00		
W0984 (#47/48 Manasa Nilaya to 9th cross road)			1	195.00	6.00		1170.00		
W1289 (L & C construction to Dead End)			1	65.00	4.00		260.00		
W1283(Veerabadra Nilaya to Dead End)			1	42.50	4.20		178.50		
W1277(Vishnu Nilaya to Dead End			1	43.00	4.20		180.60		
W1275(Venkatadri Nilaya to Dead end			1	42.00	5.20		218.40		
W1255(Nanjundeshwara furniture to Dead End)			1	220.00	4.30		946.00		
W1279 (2nd main road to Samruddhi nilaya			1	134.00	7.50		1005.00		
W0978 4th Cross Road			1	148.00	6.70		991.60		
W1287			1	34.00	6.50		221.00		
W0980(3rd cross road to sri krishna temple road			1	134.00	6.10		817.40		
W0982 (2nd Cross road to Dead End)			1	208.00	6.30		1310.40		
W0952			1	122.00	5.50		671.00		
W1393(Cotton Expo to Dead End)			1	136.00	5.10		693.60		
W1395(Fastrack Shop to Dead end)			1	114.00	5.50		627.00		
W1397 (Vivo Mobile shop to Dead end)			1	135.00	6.00		810.00		
W1399 (SBI Bank to Dead end)			1	78.00	3.80		296.40		
W1237 (HMR School to Dead end)			1	81.00	5.70		461.70		
W0960 (Cross Road to Dead End)			1	76.00	5.50		418.00		
W0964 (Balaji Nilaya to Dead End)			1	87.00	5.50		478.50		
W0970 (Jagadamba Nilaya to Dead End)			1	58.00	4.60		266.80		
Cross Road to dead end			1	31.00	4.60		142.60		
Aishwarya Nilaya to Dead End			1	37.00	6.50		240.50		
#559 to Dead End			1	37.00	6.80		251.60		

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Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
W1180(RajaRajeshwari temple shop to Dead End)			1	503.00	6.00		3018.00		
W1181(sthmain Jnanajyothinagara)			1	218.00	5.70		1242.60		
W0954 (Uma Swadeshi shop to Dead End)			1	71.00	4.20		298.20		
W0948 (10th main road Sri Jnanakshi Nilaya to Dead end)			1	70.00	5.20		364.00		
W1195 9th A cross			1	143.00	6.70		958.10		
W1197 9th cross			1	520.00	6.30		3276.00		
W1191 13th A Cross road			1	258.00	6.60		1702.80		
W1187 & W1189 13th B cross road			1	230.00	6.00		1380.00		
W1193 9th B cross to dead end			1	55.00	6.00		330.00		
W1201 & W1199			1	73.00	5.80		423.40		
W1203 (#7 Rathna Nilaya to Dead End)			1	100.00	5.00		500.00		
W1207 8th B cross (Vigneshwara stationary shop to Dead End)			1	120.00	5.00		600.00		
W1211 8th cross			1	180.00	6.60		1188.00		
W1213 (SLN Provision Store to Dead End)			1	146.00	4.00		584.00		
W1217 (8th A cross road)			1	182.00	6.80		1237.60		
W1215 (8th D cross)			1	132.00	3.60		475.20		
W1219(Hair beauty spa to Sukrith Nivas)			1	184.00	5.00		920.00		
W1219 9th Main Road			1	117.00	6.10		713.70		
W1221 7th Cross			1	128.00	4.10		524.80		
W1223			1	148.00	4.20		621.60		
W1062 & W1237 (#17 Akka thangi Nilaya to Dead End)			1	176.00	4.50		792.00		
W1235 & W1233 4th Cross Road			1	409.00	5.00		2045.00		
W1227 Naveen Electrical to Dead End			1	180.00	4.30		774.00		
W1229 5th Cross road			1	178.00	5.20		925.60		
W0944 (Surabi Nilaya to Dead end)			1	118.00	6.70		790.60		
W1177 12th main road (#Renuka Nilaya to Dead end)			1	151.00	6.40		966.40		
W0936 (#13 to 12 th main cross road)			1	62.00	6.50		403.00		
W0923 11th Cross (Ashraya house to Dead End)			1	424.00	6.80		2883.20		
W0942 10th Main Road (Saikrupa nilaya to Dead end)			1	70.00	5.30		371.00		
W0946 9th main (#43 Vaathamaja Nilaya to Dead End)			1	108.00	5.40		583.20		
W0950 (#shivakrupa nilaya to Dead End)			1	124.00	4.20		520.80		
W0958 (Sri adi shakthi nilaya to Dead End)			1	144.00	5.60		806.40		
W1169 (11th A1 cross)			1	37.50	5.00		187.50		
W1171 (11th A2 cross)			1	30.00	5.60		168.00		
W1185 (11th A3 cross)			1	27.00	5.50		148.50		
W1173 (11th A4 cross)			1	20.00	6.00		120.00		
W0771 5th main road			1	100.00	9.00		900.00		
W0931 (Jeevan Condiments to Dead End)			1	153.00	6.00		918.00		
W0758 12th Cross road			1	174.00	6.35		1104.90		
W0760 & W0762 11th Cross			1	205.00	6.80		1394.00		
							64527.75	**13.20**	**851766.30**
Basic rate	**12.00**								
Area Wieght age @ 10%	**1.20**								
Total Rate in Rs	**13.20**								

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Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
Bituminous Concrete Grading II for traffic <20 MSA Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects(Page No 36, I No 5.16 C of Vol-3 SR 2021-22) Issue Rate 07/07/2022									
New Asphalt Rd		Sqm							
W1259 Gangappa Road			1	233.00	6.60	0.04	61.51		
W0988 7th Cross Road			1	173.00	3.60	0.04	24.91		
W1265			1	17.50	4.50	0.04	3.15		
W0980 6th Cross			1	272.00	5.60	0.04	60.93		
W0992 (Om shakthi catering service to cross road)			1	247.00	4.10	0.04	40.51		
W1257 (Shivashakthi Nilaya to Dead end)			1	84.00	3.50	0.04	11.76		
W0994 (SVK KalyanaMantapa to Samruddi Nilaya			1	176.00	5.80	0.04	40.83		
W0996 (Titan Showroom to Dead End)			1	177.00	4.10	0.04	29.03		
W1102 (AquaCentre to Dead End)			1	162.00	4.00	0.04	25.92		
W1100 2nd Cross (#217 to Mobile tower)			1	137.00	4.80	0.04	26.30		
W1257 (2nd cross Jnana Jyothinagar)			1	157.00	5.10	0.04	32.03		
W1251 (Vandana Nilaya to Dead end)			1	290.00	5.40	0.04	62.64		
W1255 (#64 Nanjundeshwara Nilaya to Dead End)			1	115.00	4.60	0.04	21.16		
W0986 (ChannaBasaveshwara Nilaya to Dead End)			1	95.00	5.00	0.04	19.00		
W1243 (Siddappaji Rice Traders to Dead End)			1	324.00	6.50	0.04	84.24		
W1273			1	88.00	5.00	0.04	17.60		
W1271			1	90.00	5.20	0.04	18.72		
W1267 (4th Cross Dhanush tailor to Dead End)			1	41.00	5.00	0.04	8.20		
W0984 (#47/48 Manasa Nilaya to 9th cross road)			1	195.00	6.00	0.04	46.80		
W1289 (L & C construction to Dead End)			1	65.00	4.00	0.04	10.40		
W1283(Veerabadra Nilaya to Dead End)			1	42.50	4.20	0.04	7.14		
W1277(Vishnu Nilaya to Dead End			1	43.00	4.20	0.04	7.22		
W1275(Venkatadri Nilaya to Dead end			1	42.00	5.20	0.04	8.74		
71255(Nanjundeshwara rniture to Dead End)			1	220.00	4.30	0.04	37.84		
71279 (2nd main road to mruddhi nilaya			1	134.00	7.50	0.04	40.20		
0978 4th Cross Road			1	148.00	6.70	0.04	39.66		
1287			1	34.00	6.50	0.04	8.84		
0980(3rd cross road to sri shna temple road			1	134.00	6.10	0.04	32.70		
0982 (2nd Cross road to ad End)			1	208.00	6.30	0.04	52.42		
0952			1	122.00	5.50	0.04	26.84		
1393(Cotton Expo to Dead d)			1	136.00	5.10	0.04	27.74		
1395(Fastrack Shop to ad end)			1	114.00	5.50	0.04	25.08		
1397 (Vivo Mobile shop to ad end)			1	135.00	6.00	0.04	32.40		
1399 (SBI Bank to Dead)			1	78.00	3.80	0.04	11.86		
1237 (HMR School to d end)			1	81.00	5.70	0.04	18.47		
0960 (Cross Road to Dead)			1	76.00	5.50	0.04	16.72		

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Description of work	Unit	Nos	Nos	Dimensions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
W0927 (Jagadamba Nilaya to Dead End)			1	87.00	5.50	0.04	19.14		
Cross Road to dead end			1	58.00	4.60	0.04	10.67		
Archvaya Nilaya to Dead End			1	31.00	4.60	0.04	5.70		
W0940(RajaRajeshwari Textile shop to Dead End)			1	37.00	6.50	0.04	9.62		
W1181(6thmain Jnanajyothinagara)			1	37.00	6.80	0.04	10.06		
W0984 (Usha Swadeshi shop to Dead End)			1	503.00	6.00	0.04	120.72		
W0948 (10th main road Sri Jnanakshi Nilaya to Dead end)			1	218.00	5.70	0.04	49.70		
W1195 9th A cross			1	71.00	4.20	0.04	11.93		
W1197 9th cross			1	70.00	5.20	0.04	14.56		
W1191 13th A Cross road			1	143.00	6.70	0.04	38.32		
W1187 & W1189 13th B cross road			1	520.00	6.30	0.04	131.04		
W1193 9th B cross to dead end			1	258.00	6.60	0.04	68.11		
W1201 & W1199			1	230.00	6.00	0.04	55.20		
W1203 (#7 Rathna Nilaya to Dead End)			1	55.00	6.00	0.04	13.20		
W1207 8th B cross (Vigneshwara stationary shop to Dead End)			1	73.00	5.80	0.04	16.94		
W1211 8th cross			1	100.00	5.00	0.04	20.00		
W1213 (SLN Provision Store to Dead End)			1	120.00	5.00	0.04	24.00		
W1217 (8th A cross road)			1	180.00	6.60	0.04	47.52		
W1215 (8th D cross)			1	146.00	4.00	0.04	23.36		
W1219(Hair beauty spa to Sakrith Nivas)			1	182.00	6.80	0.04	49.50		
W1219 9th Main Road			1	132.00	3.60	0.04	19.01		
W1221 7th Cross			1	184.00	5.00	0.04	36.80		
W1223			1	117.00	6.10	0.04	28.55		
W1062 & W1237 (#17 Akka thangi Nilaya to Dead End)			1	128.00	4.10	0.04	20.99		
W1235 & W1233 4th Cross Road			1	148.00	4.20	0.04	24.86		
W1227 Naveen Electrical to Dead End			1	176.00	4.50	0.04	31.68		
W1229 5th Cross road			1	409.00	5.00	0.04	81.80		
W0944 (Surabi Nilaya to Dead end)			1	180.00	4.30	0.04	30.96		
W1177 12th main road (#Renuka Nilaya to Dead end)			1	178.00	5.20	0.04	37.02		
W0936 (#13 to 12 th main cross road)			1	118.00	6.70	0.04	31.62		
W0923 11th Cross (Ashraya house to Dead End)			1	151.00	6.40	0.04	38.66		
W0942 10th Main Road (Saikrupa nilaya to Dead end)			1	62.00	6.50	0.04	16.12		
W0946 9th main (#43 Vaathamaja Nilaya to Dead End)			1	424.00	6.80	0.04	115.33		
W0950 (#shivakrupa nilaya to Dead End)			1	70.00	5.30	0.04	14.84		
W0958 (Sri adi shakthi nilaya to Dead End)			1	108.00	5.40	0.04	23.33		
W1169 (11th A1 cross)			1	124.00	4.20	0.04	20.83		
W1171 (11th A2 cross)			1	144.00	5.60	0.04	32.26		
W1185 (11th A3 cross)			1	37.50	5.00	0.04	7.50		
W1173 (11th A4 cross)			1	30.00	5.60	0.04	6.72		
W0771 5th main road			1	27.00	5.50	0.04	5.94		
W0931 (Jeevan Condiments to Dead End)			1	20.00	6.00	0.04	4.80		
W0758 12th Cross road			1	100.00	9.00	0.04	36.00		
W0760 & W0762 11th Cross			1	153.00	6.00	0.04	36.72		
			1	174.00	6.35	0.04	44.20		
			1	205.00	6.80	0.04	55.76		

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Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
Basic rate	10611.00						2581.11	11672.10	30126974.03
Area Weight age @ 10%	1061.10								
Total Rate in Rs	11672.10								

oad Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous SurfaceProviding and ying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from rooks and holes(Page No.57, I No. 8.15 of Vol-3 SR 2021-22).

		Sqm							
oad Marking									
ew Asphalt Rd			2	233.00	0.10		46.60		
V1359 Gangappa Road			2	173.00	0.10		34.60		
V0988 7th Cross Road			2	17.50	0.10		3.50		
V1265			2	272.00	0.10		54.40		
V0990 6th Cross									
W0992 (Om shakthi catering ervice to cross road)			2	247.00	0.10		49.40		
W1257 (Shivashakthi Nilaya o Dead end)			2	84.00	0.10		16.80		
W0994 (SVK Kalyana Mantapa to Samruddi Nilaya			2	176.00	0.10		35.20		
W0996 (Titan Showroom to Dead End)			2	177.00	0.10		35.40		
W1102 (AquaCentre to Dead End)			2	162.00	0.10		32.40		
W1100 2nd Cross (#217 to Mobile tower)			2	137.00	0.10		27.40		
W1257 (2nd cross Jnana Jyothinagar)			2	157.00	0.10		31.40		
W1251 (Vandana Nilaya to Dead end)			2	290.00	0.10		58.00		
W1255 (#64 Nanjundeshwara Nilaya to Dead End)			2	115.00	0.10		23.00		
W0986 (ChannaBasaveshwara Nilaya to Dead End)			2	95.00	0.10		19.00		
W1243 (Siddappaji Rice Traders to Dead End)			2	324.00	0.10		64.80		
W1273			2	88.00	0.10		17.60		
W1271			2	90.00	0.10		18.00		
W1267 (4th Cross Dhanush tailor to Dead End)			2	41.00	0.10		8.20		
W0984 (#47/48 Manasa Nilaya to 9th cross road)			2	195.00	0.10		39.00		
W1289 (L & C construction to Dead End)			2	65.00	0.10		13.00		
W1283(Veerabadra Nilaya to Dead End)			2	42.50	0.10		8.50		
W1277(Vishnu Nilaya to Dead End			2	43.00	0.10		8.60		
W1275(Venkatadri Nilaya to Dead end			2	42.00	0.10		8.40		
W1255(Nanjundeshwara furniture to Dead End)			2	220.00	0.10		44.00		
W1279 (2nd main road to Samruddhi nilaya			2	134.00	0.10		26.80		
W0978 4th Cross Road			2	148.00	0.10		29.60		
W1287			2	34.00	0.10		6.80		
W0980(3rd cross road to sri krishna temple road			2	134.00	0.10		26.80		
W0982 (2nd Cross road to Dead End)			2	208.00	0.10		41.60		
W0952			2	122.00	0.10		24.40		
W1393(Cotton Expo to Dead End)			2	136.00	0.10		27.20		
W1395(Fastrack Shop to Dead end)			2	114.00	0.10		22.80		
W1397 (Vivo Mobile shop to Dead end)			2	135.00	0.10		27.00		
W1399 (SBI Bank to Dead end)			2	78.00	0.10		15.60		

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Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
237 (HMR School to ead end)			2	81.00	0.10		16.20		
W0890 (Cross Road to Dead nd)			2	76.00	0.10		15.20		
W0864 (Balaji Nilaya to Dead End)			2	87.00	0.10		17.40		
W0870 (Jagadamba Nilaya to Dead End)			2	58.00	0.10		11.60		
Cross Road to dead end			2	31.00	0.10		6.20		
Aishwarya Nilaya to Dead nd			2	37.00	0.10		7.40		
559 to Dead End			2	37.00	0.10		7.40		
W0840(RajaRajeshwari Textile shop to Dead End)			2	503.00	0.10		100.60		
W1181(othmain nanafvothinagara)			2	218.00	0.10		43.60		
W0954 (Urja Swadeshi shop o Dead End)			2	71.00	0.10		14.20		
W0948 (10th main road Sri Meenakshi Nilaya to Dead nd)			2	70.00	0.10		14.00		
W1195 9th A cross			2	143.00	0.10		28.60		
W1197 9th cross			2	520.00	0.10		104.00		
W1191 13th A Cross road			2	258.00	0.10		51.60		
W1187 & W1189 13th B cross road			2	230.00	0.10		46.00		
W1193 9th B cross to dead end			2	55.00	0.10		11.00		
W1201 & W1199			2	73.00	0.10		14.60		
W1203 (#7 Rathna Nilaya to Dead End)			2	100.00	0.10		20.00		
W1207 8th B cross Vigneshwara stationary to Dead End)			2	120.00	0.10		24.00		

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Description of work	Unit	Nos	Nos	Dimensions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
W1218th cross			2	180.00	0.10		36.00		
W1194 N Provision Store to Dead End)			2	146.00	0.10		29.20		
W1201 (8th A cross road)			2	182.00	0.10		36.40		
W1215 (8th D cross)			2	132.00	0.10		26.40		
W1219(Hair beauty spa to Sakruth Nivas)			2	184.00	0.10		36.80		
W1210 9th Main Road			2	117.00	0.10		23.40		
W1221 7th Cross			2	128.00	0.10		25.60		
W1223			2	148.00	0.10		29.60		
W1062 & W1237 (#17 Akka Mange Nilaya to Dead End)			2	176.00	0.10		35.20		
W1235 & W1233 4th Cross Road			2	409.00	0.10		81.80		
W1227 Naveen Electrical to Dead End			2	180.00	0.10		36.00		
W1220 5th Cross road			2	178.00	0.10		35.60		
W0944 (Surabi Nilaya to Dead end)			2	118.00	0.10		23.60		
W1177 12th main road (#Renuka Nilaya to Dead end)			2	151.00	0.10		30.20		
W0936 (#13 to 12 th main cross road)			2	62.00	0.10		12.40		
W0927 11th Cross (Ashraya house to Dead End)			2	424.00	0.10		84.80		
W0942 10th Main Road (Saikrupa nilaya to Dead end)			2	70.00	0.10		14.00		
W0946 9th main (#43 Vaathamaja Nilaya to Dead End)			2	108.00	0.10		21.60		
W0950 (#shivakrupa nilaya to Dead End)			2	124.00	0.10		24.80		
W0958 (Sri adi shakthi nilaya to Dead End)			2	144.00	0.10		28.80		
W1169 (11th A1 cross)			2	37.50	0.10		7.50		
W1171 (11th A2 cross)			2	30.00	0.10		6.00		
W1185 (11th A3 cross)			2	27.00	0.10		5.40		
W1173 (11th A4 cross)			2	20.00	0.10		4.00		
W0771 5th main road			2	100.00	0.10		20.00		
W0931 (Jeevan Condiments to Dead End)			2	153.00	0.10		30.60		
W0758 12th Cross road			2	174.00	0.10		34.80		
W0760 & W0762 11th Cross			2	205.00	0.10		41.00		
							2320.90	525.80	1220329.22
Basic rate	478.00								
Area Wieght age @ 10%	47.80								
Total Rate in Rs	525.80								
							Construction Total Amount		6,64,36,742.(
							Add GST Charges 18%		1,19,58,613.
							Add Detailed Project Report (DPR) and PMC Charges 2.0%		16,00,000.
							Sub Total		7,99,95,355
							Miscellaneous and unforeseen charges etc.L.S		4,644
							Grand Total		8,00,00,000

Certificate:

1 The work spot has been inspected and found to be necessary

2 The provisions made in the estimate are necessary and minimum

3 The estimate is based on CSR of 2021-22 of Issue Rates on 07.04.2022

Assistant Engineer
RR Nagar Division

Assistant Executive Engineer
RR Nagar Division

Executive Engineer
RR Nagar Division

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...RE MAHANAGARA PALIKE

ABSTRACT ESTIMATION

...ge Name : Providing Gallery to Musical Fountain in JP Park in Ward No 17 and Drilling of Borewells, Providing Water Supply and Construction of RO Plants in Rajarajeshwari nagara Constituency under PACKAGE-2022-23 RRN-DIV-(10).

	Description	Unit	2	55	Total Quantity	Rates In Rupees	Amount Rs.
	Earth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. In ordinary/soft rock without blasting upto 1.5 m depth (KPWD SR 2021-22, Volume-II, Item No.1.5.1, Page No.6)	Cum	2293.87	83.21	2377.08	251.90	598785.70
	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) (KWPD 2021-22, V-I, Item No.2.1.3, Page No.15)	Cum	263.20	16.82	280.01	6327.20	1771695.09
	KSRB 2.8 Providing and filling in foundation with granite/trap broken metal of 100 MM and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour charges and with all lead and lift etc complete as per specification and the direction of the Engineer in charge I.No 6.4 Volume 2 SR 2021-22	Cum	167.04		167.04	2817.10	470562.75
	Providing and laying in position Reinforced cement concrete M25 Using 20 mm nominal size graded crushed coarse aggregates for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.4.3, Page No.17)	Cum	518.28		518.28	7136.77	3698843.60

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			2	55	Quantity	Rates In Rupees	Amount Rs.
	Providing and laying in position Reinforced cement concrete M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.5.2, Page No.17)	Cum	114.51		114.51	7855.32	899544.11
6	Providing and laying in position Reinforced cement concrete M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.5.1, Page No.17)	Cum	519.56		519.56	10354.74	5379950.13
7	Supplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as per Drawing and Technical Specifications. (KWPD 2021-22, V-III, Item No.9.3, Page No.71)	Tonne	197.34		197.34	103724.50	20468519.85
8	Earth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. In ordinary/soft rock without blasting upto 1.5 m depth (KPWD SR 2021-22, Volume-II, Item No.1.5.1, Page No.6)	Cum	249.62		249.62	251.90	62878.02

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No	Description	Unit	2	55	Total Quantity	Rates In Rupees	Amount Rs.
15	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (KWPD 2021-22, V-II, Item No.6.32, Page No.17)	Sqm	578.25		578.25	1322.20	764562.15
16	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.3.1, Page No.41)	Sqm	1424.43		1424.43	337.70	481030.01
17	Providing 12 mm cement plaster with cement mortar 1:4 (1 cement: 4 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.. (KWPD 2021-22, V-II, Item No.8.1.1, Page No.41)	Sqm	114.84		114.84	239.80	27538.63
18	Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two coat applied @ 1.67 ltr/10 m^2 over and including priming coat of exterior primer applied @ 2.20 kg/10 m^2) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.30, Page No.46)	Sqm	1539.27		1539.27	149.60	230274.79
19	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years	Sqm	128.34		128.34	819.50	105174.63
20	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including grouting the joints with white cement and matching pigments etc., Complete. Size of Tile 500x500 mm (KWPD 2021-22, V-II, Item No.9.12.1, Page No.60)	Sqm	384.93		384.93	1125.30	433161.73

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Description	Unit	2	55	Total Quantity	Rates In Rupees	Amount Rs.
Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length andb jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.25 mm M.S. laths with 1.25 mm thick top cover including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-	Sqm	58.50		58.50	2761.00	161518.50
Supplying heavy gauge PVC conduit pipe..... dia confirming to IS 2509 with suitable size benda, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. (ELE SR 2021-22 Page-1, Item-1.1.2)	m	450.00	150.00	600.00	80.00	48000.00
Supplying..... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. (ELE SR 2021-22 Page-1, Item-1.2.2)	m	450.00	150.00	600.00	70.00	42000.00
Groove cutting in the wall supplying.....dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out conduit wherever necessary. (ELE SR 2021-22 Page-1, Item-1.3.2)	m	342.00	114.00	456.00	80.00	36480.00
Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of approved make etc.(ELE SR 2021-22 Page-1, Item-1.4)	each			0.00		0.00
c) 135x75x65mm	each	27.00	9.00	36.00	131.00	4716.00
d)180x90x65mm	each	27.00	9.00	36.00	155.00	5580.00
e)200x90x65mm	each	27.00	9.00	36.00	169.00	6084.00
Supplying and fixing PVC/metal conduit accessories.(3/5) (ELE SR 2021-22 Page-1, Item-1.5)	each			0.00		0.00
1. Special type junction box	each			0.00		0.00
b)25mm junction box	each	45.00	15.00	60.00	51.00	3060.00
2. Deep junction box	each			0.00		0.00
c) 32mm deep junction box	each	45.00	15.00	60.00	69.00	4140.00

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	Description	Unit			Total Quantity	Rates In Rupees	Amount Rs.
	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting.	m		55	0.00		0.00
	a)12xx"12"x3" (330x300x76mm	m		3.00	12.00	112.00	1344.00
	b)12"x9"x3" (300x228x76)	m		3.00	12.00	105.00	1260.00
	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. compelete for each outlet. (ELE SR 2021-22 Page-2, Item-2.1)	each			0.00		0.00
	a) Short point up to 3Mtr from tapping point to out let via switchEach point	each		30.00	120.00	276.00	33120.00
	b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch (Each point)	each		30.00	120.00	386.00	46320.00
	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. (ELE SR 2021-22 Page-3, Item-2.2)	each			0.00		0.00
	a) Short point up to 3Mtr from tapping point to out let via switch box	each		30.00	120.00	251.00	30120.00
	b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box	each		30.00	120.00	361.00	43320.00
	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. (ELE SR 2021-22 Page-5, Item-3.5.3)	each			0.00		0.00
	I.Group-A	each			0.00		0.00
	e) 6Moudule	each		27.00	108.00	244.00	26352.00
	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate..(ELE SR 2021-22 Page-5, Item-3.6)	each			0.00		0.00
	I.Using Group "A" materials	each			0.00		0.00
	a) 6Amps one way.	each		15.00	60.00	88.00	5280.00
	i) 32Amps DP switch	each		6.00	24.00	375.00	9000.00
	j) 6/16Amps universal socket	each		45.00	180.00	249.00	44820.00
	Supplying and fixing 32Amps security and energy saving DP switch with key tag suitable to operate on 230 Volts, 50Hz AC supply &completely wired on existing box. (ELE SR 6 Page-6, Item-3.7)	each			0.00		0.00

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		Unit		55	Total Quantity	Rates In Rupees	Amount Rs.
	Using Group "A" materials		2				
	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. (ELE SR 2021-22 Page-3, Item-2.3)	each	18.00	6.00	24.00	747.00	17928.00
	a 1 sqmm.	m			0.00		0.00
	b 1.5 sqmm	m	1350.00	450.00	1800.00	18.00	32400.00
	C 6 sqmm	m	1350.00	450.00	1800.00	26.00	46800.00
	Supplying and fixing of PVC casing and capping on the wall or ceilng using necessary materials like bends, screws at an interval of 300mm .... Etc as required. (ELE SR 2021-22 Page-2, Item-1.8)	m	1800.00	600.00	2400.00	87.00	208800.00
	a) 20mm	m			0.00		0.00
	Supplying PVC/GI flexible conduit pipe....mm dia fixing on surface over inverted wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and either end of the pipe terminated completely. (ELE SR 2021-22 Page-2, Item-	m	180.00	60.00	240.00	27.00	6480.00
	a) 20mm	Nos			0.00		0.00
	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws. (ELE SR 2021-22 Page-6, Item-3.10.2)	Nos	135.00	45.00	180.00	25.00	4500.00
	b) 110mm	Nos			0.00		0.00
	Supplying a 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slap. (ELE SR 2021-22 Page-6, Item-3.11)	Nos	90.00	30.00	120.00	12.00	1440.00
	Supplying and fixing of slim box fitting, made out of CRCA Sheet metal body with locking type holder completely wired. Excluding Ballast & Flouresent Tube. 1 x 4' Tube light fitting. (ELE SR 2019-20 Page-41, Item-12.25.2)	Nos	90.00	30.00	120.00	8.00	960.00
	Supplying and fixing of T5 Fluorescent Tube with 14W power consumption with low 3mg Mercury content & below 40% glass content than T8 lamp & 20% less phosphor coating than T8 with initial lumen on 1350 (for 3000-6500 deg Kelvin), rated Avg life (12 Hr. Cycle) of greater than 35000 burring hours. Operating voltage range from 180V to 265V, 50Hz AC power Supply 28 watts Lamp (ELE SR 2021-22 Page-40, Item-12.18.2)	each	36.00	12.00	48.00	310.00	14880.00
	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS: 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. (KPWD SR 2021-22 Volume-II, Item No 13.34)	each	36.00	12.00	48.00	172.00	8256.00
		Ltr	18000.00	6000.00	24000.00	8.80	211200.00

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	Description	Unit	2	55	Total Quantity	Rates In Rupees	Amount Rs.
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall 25 mm nominal dia Pipes (KPWD SR 2021-22, Volume-II, Item No.13.31.3)	mtr	162.00	54.00	216.00	347.60	75081.60
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall 32 mm nominal dia Pipes (KPWD SR 2021-22, Volume-II, Item No.13.31.4)	mtr	135.00	45.00	180.00	432.30	77814.00
	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber 150 x 100 mm size P type With Non Modular common burnt clay bricks of designation 3.5 & with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight or cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: (KPWD SR 2021-22, Volume-II, Item No.13.39)	Each	18.00	6.00	24.00	2528.90	60693.60
	Raw water Feed pump with starter,Type-Horizontal ,Centrifugal.Make-Kirloskar/Beacon weir/Sumo/CNP(SS),Material of Construction-Cast Iron,Head-36 MWC. Motor-3.0HPthree phase.Starter-L&T Siemen make push botton type DOL Starter	Nos	18.00	6.00	24.00	24500.00	588000.00
	Multi graded sand filter,type-verticle,Floor Mounted,Make-pentair/structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure -3.5kg/cm2, Treatment Flow Rate-6000liters/Hr,Type of valve size-Multiport,50NB,make-UKL/Initiative,Filtering Media -Gravel,Graded Sand & Pebble	Nos	18.00	6.00	24.00	33000.00	792000.00
	Activated carbon Filter type-Verticle,Floor Mounted,Make-pentair/Structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure -3.5kg/cm2, Treatment Flow Rate-6000liters/Hr,Type of valve size-Multiport,50NB,make-UKL/Initiative,Filtering Media -Gravel, Activated Carbon & pebbles	Nos	9.00	3.00	12.00	62500.00	750000.00
	Water Softner,type-Verticle,Floor Mounted,Make-pentair/Structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure 3.5kg/cm2, Treatment Flow Rate-6000liters/Hr,Type of Resin INDION 220Na or Thermax T40	Nos	9.00	3.00	12.00	62000.00	744000.00
	Antiscalant Dosing System,Equipment Required-Electronic Dosing Pump with Solution Tank,make-Ion Exchange (I) Ltd.,/ASIA LMI/Zeolite,Material of Construction-PP(Polypropelene),Discharge @Max Back Pressure-2.88litr/Hr @8bar,Discharge@Nominal Back Pressure=3.12Lit/Hr @ 4Bar,Chemical to be dosed-INDION Antiscalant	Nos	9.00	3.00	12.00	85000.00	1020000.00

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				55	Total Quantity	Rates In Rupees	Amount Rs.
	Accessories for Dosing System,Solution Tank-One No,Volume-100Litres,Material of Construction-HDPE,Tank level Switch-One No.	Unit	2				
62	Reverse Osmosis System,Type-Horizontal Skid,Floor Mounted,Permeate water-Minimum 2000litr/hr,Maximum Permissable TDS in feed (PPM)-2500.	Nos	500	3.00	12.00	42000.00	504000.00
63	Pressure Vessel,Material of Construction-FRP,Make-Advance Composite/Code Line.	Nos	100	3.00	12.00	89000.00	1068000.00
64	Membrane, Type-Brackish water . Nos required-Three.Make-TORAY JAPAN /Hydranautics/Filmtec/Tricep	Nos	100	3.00	12.00	85000.00	1020000.00
65	High pressure pump,Type- verticle,multistage,Make-GRUNDFOS,MOTOR-7.5 HP 3Phase, Model-CRN series,Material of construction-SS316,starter-L&T/Seimens make push botton type DOL starter	Nos	100	3.00	12.00	88000.00	1056000.00
66	Micron Filter,Type -JUMBO,Material of construction of housing-poly propelene	Nos	500	3.00	12.00	55000.00	660000.00
67	Instruction, Wet panel -Ms powder coated., Mounted on R.O> skid, Low pressure switch-one No,High Pressure Switch-one, Digitalconductivity Meter wiyh sensor , Indon brand-one No , ON/OFF selector Switch -one No, High pressure System Pressure Gauge - one No, Auto Flush Timer - one No, Indication Lamps -one No, product Flow Meter- one No, Reject Flow Meter-one No,Reject Re-circolation Meter-one No,Alarm-one No	Nos	100	3.00	12.00	78000.00	936000.00
68	pH correction dosing System, Equipment Required-Electronic Dosing Pump with solution Tank, Make-Ion Exchange(1) Ltd.,/ASIA LMI/Zeolite,Material of construction -PP, Discharge @ max . Back Pressure-2.88 Lit/Hr@8Bar.Discharge@Nominal Back Pressure-3.12 Lit/Hr@4Bar,Frequency-100 Strokes / Min, Chemical to be dosed-PH Booster	Nos	100	3.00	12.00	86000.00	1032000.00
69	Solution Tank with level switch, Solution Tank-one No, Volume-100 Liters. Material of construction-HDPE. Tank levelswitch-one No	Nos	100	3.00	12.00	83000.00	996000.00
70	Inter-connecting pipe work ,Raw water tank to feed pump suction and feed pump delivery to R.O. Inlet (up to High pressure pump in let)and RO outlet to Treated water tank-food Grade PVC pipe 40mm NB, Make-Finolex/ supreme,High pressure pump outlet to membrane inlet-ss pipe of required size, Approximate Length-35.0 Metre	Nos	100	3.00	12.00	15000.00	180000.00
71	Ultra violet system, Model-UVS-20,Make-Ion Exchange (I) Ltd.,/ASIA LMI/Zeolite,ALFA Flow rate-2000L/H	Nos	100	3.00	12.00	78000.00	936000.00
72	RO water strong tank, 2000 ltrs SS tank, to store RO water with required nozzles	Nos	100	3.00	12.00	74500.00	894000.00
73	Wending Machine ,Digital Swiping Card Type	Nos	100	3.00	12.00	80000.00	960000.00
				3.00	12.00	35000.00	420000.00

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No	Description	Unit		55	Total Quantity	Rates In Rupees	Amount Rs.
14	Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15% b)	No	10	3.00	12.00	5141.00	61692.00
0	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc.,	Rmt			0.00		0.00
15	0 to 50 m	Rmt	45.00	150.00	600.00	347.00	208200.00
16	50 to 100 m	Rmt	45.00	150.00	600.00	442.00	265200.00
17	100 to 150 m	Rmt	45.00	150.00	600.00	456.00	273600.00
18	150 to 200 m	Rmt	45.00	150.00	600.00	536.00	321600.00
19	200 to 250 m	Rmt	45.00	150.00	600.00	634.00	380400.00
20	250 to 300 m	Rmt	45.00	150.00	600.00	700.00	420000.00
21	300 to 350 m	Rmt	45.00	150.00	600.00	825.00	495000.00
22	350 to 400 m	Rmt	45.00	150.00	600.00	900.00	540000.00
23	400 to 420 m	Rmt	180.00	60.00	240.00	1129.00	270960.00
24	Providing and fixing 250mm dia PVC (casing pipe) (page no.XXXI, Sl. no.909) (KPWD SR 2016-17)	Rmt	108.00	36.00	144.00	2600.00	374400.00

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	Description	Unit	2	55	Total Quantity	Rates In Rupees	Amount Rs.
	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.prices include Collar-Medium duty.	Rmt	450.00	150.00	600.00	1933.00	1159800.00
	Providing and fixing MS casing collars as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments	Each	75.00	25.00	100.00	150.00	15000.00
	Providing 175mm dia Bore Cap CE (M)	No	9.00	3.00	12.00	100.00	1200.00
	Atalanta suguna CRI KIRLOSKAR and other equipments pumps 10.00 HP/7.5 KV (20 stage)	No	9.00	3.00	12.00	49955.00	599460.00
	Providing and fixing in trenches galvinised/mild steel tube 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for seperately) including cost of all materials, labour charges,HOM of equipment and testing complete as per specifications. Specification No. KBS 13.2.14/13.6 (page no.92/It no.13.15)KPWD SR 2018-19.	Rmt	3150.00	1035.00	4185.00	411.28	1721206.80
	Supplying and drawing 3 core flat PVC sheathed submersible pump cable maufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and power coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and confirming to the attwached GTP of group A 3CX4.0 sq.mm	Rmt	6210.00	2100.00	8310.00	126.70	1052877.00
	Providing and fixing in position 50mm Nominal bore non-return valve vertical type of approved make including cost of all materials,labour and HOM of equipment with all leads complete as per specifications.(PWD SR 18-19,P-95/It no.13.62)	No	9.00	3.00	12.00	1345.14	16141.68
	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :	No	9.00	3.00	12.00	597.30	7167.60
	Spplying and fixing 50mm GI Elbow.	No	9.00	3.00	12.00	111.80	1341.60
	Spplying and fixing 50mm GI Nipple	No	9.00	3.00	12.00	104.30	1251.60
	Spplying and fixing 50mm GI Hose colleres	No	522.00	174.00	696.00	103.00	71688.00
	Supplying and fixing 20" x 20" x 2.5" polished wood board made of not less than 15mm thick plank on both the sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc..	No	9.00	3.00	12.00	302.00	3624.00

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Description	Unit		Total Quantity	Rates In Rupees	Amount Rs.
Supplying and fixing miniature circuit breakers on existing MCB distribution board using necessary fixing materials and 'C' type curve indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.(PWD Ele SR 2022-23,P-13/Sl no.5.17.7) 6-32 A TPN	No	3.00	12.00	1777.00	21324.00
Supplying of TPST with rewirable porcelain channels in SM encloser made out of 14 SWG powder coated point of approved colour 32 amps (PWD Ele SR 2022-23,P-10,It-5.5.1)	No	3.00	12.00	1944.00	23328.00
Supplying and fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50 HZ 12/24 V DC(PWD Ele SR 2022-23 P-14 Sl.no.5.38)	No	3.00	12.00	464.00	5568.00
Suppling fully automatic star delta starter unit push button type with suitable wires 2 conductors and adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts phase and wired after fixing to the existing wooden board for motor. upto 12.5HP(PWD Ele SR 2022-23,p-10,Sl no.-5.2.1)	No	3.00	12.00	6912.00	82944.00
Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motar up to 20 HP capacities.(PWD Ele SR 2022-23,p-10/Sl no.5.3)	No	3.00	12.00	805.00	9660.00
Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694:1990 & conforming to the attached GTP of group A. 4 sqmm (PWD Ele SR 2019-20,p-3,It-2.3.4(d)	Mtrs	60.00	240.00	59.00	14160.00
Supplying fixing and wiring heavy duty low voltage capacitors conforming to IS 2834 phase 400/440 volts grade, for power factor improvement of rotating machinery.(PWD Ele SR 2022-23 ,p-14/Sl no.5.37)	No	12.00	48.00	432.00	20736.00
Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cotouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia (PWD Ele SR 2019-20,p-40,Sl no.6.1)	No	3.00	12.00	2999.70	35996.40
Digging of trench of 0.36mtrs deepx0.5 mtrs wide refilling the trench to the required gorund level and consolidating etc., complete (PWD Ele SR 2019-20,p-41,It-6.6.2) hard soil	Mtrs	24.00	96.00	102.00	9792.00
Supplying laying 1.1 KV class I.T UG cable having aluminium conductor PVC insulated extruded inner shethed galvanised steel strip (excep 2cx 10 sqmm wire armoured) confirming to IS-3975:1990 (No. of strip indicated in GTP) and extruded PVC outer sheathed armoured cable with specified IS-1554,part-1:1988 and confirming to the attached GTP of group A 4 core 16 sq mm PWD Ele SR 2019-20,p-40,It-6.4.4)	Mtrs	30.00	120.00	150.00	18000.00
Labour charge for laying 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe/ on wall / on poles as required in existing trench/duct. 6 sq mm to 16 sq mm(PWD Ele SR 2019-20,p-41,It-6.5.1)	No	75.00	300.00	11.88	3564.00

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Description	Unit		Total Quantity	Rates In Rupees	Amount Rs.
Supplying and fixing class-A(medium duty) GI pipe wall thickness not less then 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1KV class 40mm(PWD Ele SR 2019-20,p-41,lt-6.9.1)	Rmt	55	24.00	335.00	8040.00
Supplying and fixing LT cast iron pot heads suitable for 1.1KV class UG cable filled with necessary bitumen / insulating compound complete with terminals,clamps bolts and nuts and washer etc.,complete for 16 sq mm as per specifications.(PWD Ele SR 2019-20,p-42,lt-6.10.2)	No	6.00	12.00	270.00	3240.00
Supplying and fixing porcelain fuse channel with cut out on the existing wooden block and wiring complete 63 amps(PWD Ele SR 2019-20,p-10,lt-5.7.3)	No	3.00	36.00	372.00	13392.00
Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately	Cum	9.00	78.17	464.20	36284.19
Earth work excavation for pipeline trenches in all kinds of by mechanical means above 600 mm trench width as per drawing and technical specifications, including setting out, construction of shoring, strutting, barricading, caution lights, bracing, using sight rails & bonding rods at every 100 mm whevere necessary as directed, removal of slumps and other deleterious matter, dressing of sides and levelling the bottom of trench to the extent required , utilising the available excavated earth locally for the work and all other appurtenances to complete in the following strata.	Cum	21.47	216.00	376.20	81259.20
Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (external work) - 50mm nominal OD pipes (KPWD SR 2018-19, P-99, lt-13.87.6)	Mtr	57.24	1326.00	772.20	1023937.20
Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc complete : 25 to 40 mm nominal bore	Each	318.00	132.60	518.10	68700.06
Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work). - 20mm nominal OD pipes (KPWD SR 2018-19, P-98, lt-13.85.2)	Mtr	31.80	120.00	236.50	28380.00
Providing and fixing to wall, ceiling and floor Medium density polyethylene pipes 6.00 kgf/sq.cm working pressure 25mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9 (KPWD SR 2018-19, P-95, lt-13.67)	Mtr	30.00	1500.00	136.74	205110.00
		375.00			

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Description	Unit	2	55	Total Quantity	Rates In Rupees	Amount Rs.
Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications	Cum	111.13	40.07	151.20	134.20	20291.04
Loading and unloading of stone boulder/stone aggregates/sand/kanker/ moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (KPWD SR 2018-19,P-136, it.17.1)	Cum	104.33	38.64	142.97	97.96	14004.85
Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) 65 mm nominal bore	Each	9.00	3.00	12.00	1529.00	18348.00
Providing and fixing brass stop cock of approved quality :	Each	100.80	31.80	132.60	358.60	47550.36
Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates	Cum	68.04	21.47	89.51	6518.60	583447.29
BESCOM deposit Charges and miscellaneous	No	9.00	3.00	12.00	12000.00	144000.00
Providing and laying in position Reinforced cement concrete M20 Using 20 mm nominal size graded crushed coarse aggregates for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical	Cum		13.12	13.12	7088.05	93009.37
Providing and laying in position Reinforced cement concrete M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical	Cum		3.24	3.24	7829.91	25368.91

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Sl No	Description	Unit	2	55	Total Quantity	Rates In Rupees	Amount Rs.
125	Providing and laying in position Reinforced cement concrete M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork	Cum		14.42	14.42	8541.72	123128.89
126	Supplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as per Drawing and Technical Specifications. (KWPD 2021-22, V-III, Item No.9.3, Page No.71)	Cum		3.85	3.85	103724.50	399041.12
127	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (KWPD 2021-22, V-II, Item No.5.4, Page No.9)	Cum		31.21	31.21	5964.20	186118.83
128	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (KWPD 2021-22, V-II, Item No.6.32, Page No.17)	Sqm		192.75	192.75	1322.20	254854.05
129	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.3.1, Page No.41)	Sqm		474.81	474.81	337.70	160343.34
130	Providing 12 mm cement plaster with cement mortar 1:4 (1 cement: 4 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.. (KWPD 2021-22, V-II, Item No.8.1.1, Page No.41)	Sqm		38.28	38.28	239.80	9179.54
11	Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two coat applied @ 1.67 ltr/10 m^2 over and including priming coat of exterior primer applied @ 2.20 kg/10 m^2) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.30, Page No.46)	Sqm		513.09	513.09	149.60	76758.26

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Description	Unit	2	55	Total Quantity	Rates In Rupees	Amount Rs.
Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years	Sqm		42.78	42.78	819.50	35058.21
Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including grouting the joints with white cement and matching pigments etc., Complete. Size of Tile 500x500 mm (KWPD 2021-22, V-II, Item No.9.12.1, Page No.60)	Sqm		128.31	128.31	1125.30	144387.24
Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length andb jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.25 mm M.S. laths with 1.25 mm thick top cover including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-	Sqm		19.50	19.50	2761.00	53839.50
Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work.(Page No.8, I.No. 1.12 of Vol-1 CSR 2021-22). In all kinds of soils upto 300 mm depth	Cum		4839.58	4839.58	161.10	779656.54
Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401. Granular Sub-BasePlant Mix Method	Cum		2903.75	2903.75	2581.70	7496608.15

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Description	Unit	2	55	Total Quantity	Rates In Rupees	Amount Rs.
Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Wet Mix Macadam (Plant mix method) (Page No.24, I.No. 4.27 of Vol-3 SR 2021-22).	Cum		3387.71	3387.71	2633.40	8921187.28
Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (Page No.29, I.No. 5.1 of Vol-3 SR 2021-22).Issue Rate 07/07/2022	Sqm		19358.33	19358.33	46.20	894354.62
Bituminous Macadam Grading - II for traffic <20 MSA Providing and laying Bituminous Macadam with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading premixed with bituminous binder VG-30 @ 3.4% by weight of mix, transported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction (Page No.31, I.No. 5.8 C of Vol-3 SR 2021-22).Issue Rate 07/07/2022	Cum		967.92	967.92	8104.80	7844767.62
Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom(Page No.29, I.No. 5.3 of Vol-3 SR 2021-22).	Sqm		64527.75	64527.75	13.20	851766.30
Bituminous Concrete Grading II for traffic <20 MSA Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specificationclause No. 507 complete in all respects(Page No 36, I.No.5.16 C of Vol-3 SR 2021-22).Issue Rate 07/07/2022	Sqm		2581.11	2581.11	11672.10	30126974.03

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	Description				Rates In Rupees	Amount Rs.
			2	55		
	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous SurfaceProviding and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes(Page No.57, I.No. 8.15 of Vol-3 SR 2021-22).	Sqm	2320.90	2320.90	525.80	1220329.22
					Construction Total Amount	124569811.38
					Add GST Charges 18%	22422566.05
					Add Detailed Project Report (DPR) and PMC Charges 2.0%	3000000.00
					Sub Total	149992377.43
					Miscellaneous and unforeseen charges etc.L.S	7622.57
					Grand Total	150000000.00

TECHNICAL SANCTION

Rs: 12,45,69,811/- (Rupees twelve crore forty five lakhs sixty nine thousand eight hundred eleven only) is accorded under the head: Eight hundred eleventy

By CE(R.R.N.): P.N - 22-23

Registered as CE (R.R.N) No: 65/22-23 subject to conditions contained in enclosed memo No: 65/22-23 Dt: 08/07/2022

TA.

CE (R.R.N)

ನಂ.: 37/22-23 ದಿನಾಂಕ: 20/09/2022

ರೂ 150000000/-

(Fifteen Lacly only)

ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಿಭಾಗ
ಬ.ಬ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-72

Executive Engineer
RR NAGARA Division
BBMP

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

BRUHAT BANGALORE MAHANAGARA PALIKE

DETAILED TENDER SCHEDULE

Name : Providing Gallery to Musical Fountain in JP Park in Ward No 17and Drilling of Borewells, Providing Water and Construction of RO Plants in Rajarajeshwari nagara Constituency under PACKAGE-2022-23 RRN-DIV-(10).

	Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
	Earth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. In ordinary/soft rock without blasting upto 1.5 m depth (KPWD SR 2021-22, Volume-II, Item No.1.5.1, Page No.6)	Cum	2377.08	251.90	Rupees Two Hundred Fifty One And Paise Ninety Only
	Providing and laying in position plain cement concrete Mix 1:3:6 (M10) using 40 mm nominal size graded crushed coarse aggregates for levelling course for all works in foundation. The granite/trap/basalt crushed hard coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) (KWPD 2021-22, V-I, Item No.2.1.3, Page No.15)	Cum	280.01	6327.20	Rupees Six Thousand Three Hundred Twenty Seven And Paise Twenty Only
	KSRB 2.8 Providing and filling in foundation with granite/trap broken metal of 100 MM and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour charges and with all lead and lift etc complete as per specification and the direction of the Engineer in charge I.No 6.4 Volume 2 SR 2021-22	Cum	167.04	2817.10	Rupees Two Thousand Eight Hundred Seventeen And Paise Ten Only
	Providing and laying in position Reinforced cement concrete M25 Using 20 mm nominal size graded crushed coarse aggregates for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical	Cum	518.28	7136.77	Rupees Seven Thousand One Hundred Thirty Six And Paise Seventy Seven Only
	Providing and laying in position Reinforced cement concrete M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork	Cum	114.51	7855.32	Rupees Seven Thousand Eight Hundred Fifty Five And Paise Thirty Two Only
6	Providing and laying in position Reinforced cement concrete M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) (KWPD 2021-22, V-I, Item No.2.5.1, Page No.17)	Cum	519.56	10354.74	Rupees Ten Thousand Three Hundred Fifty Four And Paise Seventy Four Only
7	Supplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as per Drawing and Technical Specifications. (KWPD 2021-22, V-III, Item No.9.3, Page No.71)	Tonne Cum	197.34	103724.50	Rupees One Lakh(s) Three Thousand Seven Hundred Twenty Four And Paise Fifty Only
8	Earth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work. In ordinary/soft rock without blasting upto 1.5 m depth (KPWD SR 2021-22, Volume-II, Item No.1.5.1, Page No.6)	Cum	249.62	251.90	Rupees Two Hundred Fifty One And Paise Ninety Only

No. of Corrections: ~~00~~ 01

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Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
...ing in position plain cement concrete Mix 1:3:6 (M10) ...m nominal size graded crushed coarse aggregates for levelling ...ork works in foundation. The granite/trap/basalt crushed ...coarse aggregates and fine aggregates as per relevant IS Codes ...laid in layers not exceeding 150 mm thickness well ...using plate vibrators, including all lead & lifts, cost of all ...quality, labour, Usage charges of machineries, curing and all ...ances required to complete the work as per technical ...(The cost of steel reinforcement & formwork shall be paid ...(KWPD 2021-22, V-I, Item No.2.1.3, Page No.15)	Cum	50.45	6327.20	Rupees Six Thousand Three Hundred Twenty Seven And Paise Twenty Only
...and laying in position Reinforced cement concrete M25 Design ...20 mm nominal size graded crushed coarse aggregates for all ...structures of building, Irrigation works, Sub structure works of ...Water works & other parallel works from 0.50m to 3.50 m height. ...granite/trap/basalt crushed graded coarse aggregates and fine ...as per relevant IS Codes machine mixed with super ...laid in layers, well compacted using needle vibrators, ...weep holes wherever necesary, including all lead & lifts, cost of ...quality, confirming to the requirements of relevant IS ...all materials, quality confirming to the requirements of relevant IS ...labour, Usage charges of machinery, curing and all other ...required to complete the work as per technical ...The cost of steel reinforcement dowel bars & formwork ...(KWPD 2021-22, V-III, Item No.7.1.1, Page No.15)	Cum	39.37	7120.91	Rupees Seven Thousand One Hundred Twenty And Paise Ninety Only - One only
...and laying in position Reinforced cement concrete M25 Design ...20 mm nominal size graded crushed coarse aggregates for all ...structures of building , Road works, Water works, Irrigation works ...structure works of bridges upto 3.50 m height. The granite/ ...structure crushed graded coarse aggregates and fine aggregates as per ...basalt crushed graded coarse aggregates laid in layers, ...IS Codes machine mixed with super plasticisers laid in layers, ...compacted using needle vibrators. The cost includes all lead & lifts, ...all materials, quality confirming to the requirements of relevant IS ...labour, Usage charges of machinery, curing and all other ...required to complete the work as per technical ...The cost of steel reinforcement dowel bars & formwork ...(KWPD 2021-22, V-III, Item No.7.1.2, Page No.15)	Cum	9.72	7855.32	Rupees Seven Thousand Eight Hundred Fifty Five And Paise Thirty Two Only
...and laying in position Reinforced cement concrete M25 Design ...20 mm nominal size graded crushed coarse aggregates for all ...structures of building , Road works, Water works, Irrigation works ...structure works of bridges upto 3.50 m height. The granite/ ...structure crushed graded coarse aggregates and fine aggregates as per ...basalt crushed graded coarse aggregates and fine aggregates as per ...IS Codes machine mixed with super plasticisers laid in layers, ...compacted using needle vibrators. The cost includes all lead & lifts, ...all materials, quality confirming to the requirements of relevant IS ...labour, Usage charges of machinery, curing and all other ...required to complete the work as per technical ...The cost of steel reinforcement dowel bars & formwork ...(KWPD 2021-22, V-III, Item No.7.1.3, Page No.15)	Cum	43.25	8569.44	Rupees Eight Thousand Five Hundred Sixty Nine And Paise Forty Four Only
Supplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as per Drawing and Technical Specifications. (KWPD 2021-22, V-III, Item No.9.3, Page No.71)	Cum	11.54	103724.50	Rupees One Lakh(s) Three Thousand Seven Hundred Twenty Four And Paise Fifty Only
Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) (KWPD 2021-22, V-II, Item No.5.4, Page No.9)	Cum	93.62	5964.20	Rupees Five Thousand Nine Hundred Sixty Four And Paise Twenty Only
Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part -I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (KWPD 2021-22, V-II, Item No.6.32, Page No.17)	Sqm	578.25	1322.20	Rupees One Thousand Three Hundred Twenty Two And Paise Twenty Only
Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.3.1, Page No.41)	Sqm	1424.43	337.70	Rupees Three Hundred Thirty Seven And Paise Seventy Only
Providing 12 mm cement plaster with cement mortar 1:4 (1 cement: 4 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.. (KWPD 2021-22, V-II, Item No.8.11, Page No.41)	Sqm	114.84	239.80	Rupees Two Hundred Thirty Nine And Paise Eighty Only
Finishing walls with Acrylic Smooth exterior paint of required shade New work (Two coat applied @ 1.67 ltr/10 m^2 over and including priming coat of exterior primer applied @ 2.20 kg/10 m^2) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.30, Page No.46)	Sqm	1539.27	149.60	Rupees One Hundred Forty Nine And Paise Sixty Only
Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years	Sqm	128.34	819.50	Rupees Eight Hundred Nineteen And Paise Fifty Only

No. of Corrections: 01

P.N - (2)

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Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
...ed fixing vitrified floor tiles in different sizes (thickness to be ...s the manufacturer) with water absorption less than 0.08% ...forming to IS: 15622, of approved make, in all colours and ...s laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse ...ing with grey cement and matching pigments etc., Complete. Size ...ing with white cement and matching pigments etc., Complete. Size ...x 600 mm (SWPD 2021-22 V. II, Item No.9.12.1, Page No.60)	Sqm	384.93	1125.30	Rupees One Thousand One Hundred Twenty Five And Paise Thirty Only
...ing and fixing rolling shutters of approved make, made of required ...ze with laths interlocked together through their entire length and ...ch laths, interlocks keef together through their entire length and ...ed together at the end by end locks, mounted on specially designed ...ke with hook keys, side guides and arrangements for inside and ...ng with push and pull operation complete, including the cost ...and fixing necessary 27.5 cm long wire springs ...ed from high tensile steel wire of adequate strength ...ed from IS: 4454 part 1 and M.S. top cover of required thickness ...ming to IS: 4454 part 1 and M.S. laths with 1.25 mm thick top cover ...shutters 80x1.25 mm M.S. laths with 1.25 mm thick top cover ...ding cost of materials, labour, usage charges of machinery complete ...ding cost of materials, labour, usage charges of the Engineer-in- ...ge specifications and as per directions of the Engineer-in-	Sqm	58.50	2761.00	Rupees Two Thousand Seven Hundred Sixty One Only
...plying heavy gauge PVC conduit pipe..... dia confirming to IS 2509 ...ble size bends, junction boxes, adhesive paste etc, and fixing ...ed wood plugs in case of RCC ceiling and RCC wall stone ...ers or rawl plugs in case of brick walls and cement plastering ...ion using heavy gauge saddles at an interval of 700mm ...screws. (ELE SR 2021-22 Page-1, Item-1.1.2)	m	600.00	80.00	Rupees Eighty Only
...plying..... mm dia 2mm/2.5mm thick heavy gauge PVC conduit pipe ...able size bends, metal/PVC junction boxes adhesive paste etc., ...ning before concreting the slab. The conduit should be tied to the ...cement rods by using binding wires and unused ways of junction ...and pipe ends should be covered using PVC end enclosures. run ...with 18SWG GI fish wire wherever necessary. (ELE SR 2021-22 Page-1, Item-1.2.1)	m	600.00	70.00	Rupees Seventy Only
...ove cutting in the wall supplying.....dia 2mm/2.5mm thick heavy ...uge PVC Conduit Pipe with bends, metal junction boxes adhesive paste ...etc. and bracing U or J hooks and cement plastering up to the surface of ...the brick level and run with 18 SWG GI fish wire run through out conduit ...wherever necessary. (ELE SR 2021-22 Page-1, Item-1.3.2)	m	456.00	80.00	Rupees Eighty Only
Supplying and fixing sheet metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of approved make etc (ELE SR 2021-22 Page-1, Item-1.4)	each			
a)135x75x65mm	each	36.00	131.00	Rupees One Hundred Thirty One Only
b)180x90x65mm	each	36.00	155.00	Rupees One Hundred Fifty Five Only
c)200x90x65mm	each	36.00	169.00	Rupees One Hundred Sixty Nine Only
Supplying and fixing PVC/metal conduit accessories.(3/5) (ELE SR 2021-22 Page-1, Item-1.5)	each			
1. Special type junction box	each			
a)25mm junction box	each	60.00	51.00	Rupees Fifty One Only
2. Deep junction box	each			
c) 32mm deep junction box	each	60.00	69.00	Rupees Sixty Nine Only
Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting.	m			
a)12xx"12"x3" (330x300x76mm	m	12.00	112.00	Rupees One Hundred Twelve Only
b)12"x9"x3" (300x228x76)	m	12.00	105.00	Rupees One Hundred Five Only
Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. compelete for each outlet. (ELE SR 2021-22 Page-2, Item-2.1)	each			
a) Short point up to 3Mtr from tapping point to out let via switchEach point	each	120.00	276.00	Rupees Two Hundred Seventy Six Only
b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch (Each point)	each	120.00	386.00	Rupees Three Hundred Eighty Six Only
Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. (ELE SR 2021-22 Page-3, Item-2.2)	each			
a) Short point up to 3Mtr from tapping point to out let via switch box	each	120.00	251.00	Rupees Two Hundred Fifty One Only
b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box	each	120.00	361.00	Rupees Three Hundred Sixty One Only
pplying and fixing superior quality modular switch mounting ...lycarbonate plate with necessary supporting back plate with required ...s of machine screws, bolts nuts etc., complete on the existing ...tal/PVC box. (ELE SR 2021-22 Page-5, Item-3.5.3)	each			
oup-A	each	0.00		Rupees Nil

No. of Corrections : NIL

P.N (3)

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	Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
	...and fixing of modular switch/ Socket/stepped electronic fan ...ulator/ bell/ buzzer/ telephone socket etc. on existing modular switch ...(ELE SR 2021-22 Page-5, Item-3.6)	each	108.00	244.00	Rupees Two Hundred Forty Four Only
	...Group "A" materials	each			
	...one way	each	60.00	88.00	Rupees Eighty Eight Only
	...plate for switch	each	24.00	375.00	Rupees Three Hundred Seventy Five Only
	...16 amps universal socket	each	180.00	249.00	Rupees Two Hundred Forty Nine Only
	...ding and fixing 32Amps security and energy saving DP switch with ...ch suitable to operate on 230 Volts, 50Hz AC supply &completely ...ded in existing box. (ELE SR 6 Page-6, Item-3.7)	each	0.00		Rupees Nil
	...Group "A" materials	each	24.00	747.00	Rupees Seven Hundred Forty Seven Only
	...ing for lighting/power circuit using one of FRLS PVC insulated 1100V ...ade multistrand copper wire with low conductor resistance single ...ed in open or concealed system of wiring with specified IS- ...ed conforming to latest amendments. (ELE SR 2021-22 Page-3, Item-3.2)	m			
	...1.5sqmm	m	1800.00	18.00	Rupees Eighteen Only
	...2.5 sqmm	m	1800.00	26.00	Rupees Twenty Six Only
	...4 sqmm	m	2400.00	87.00	Rupees Eighty Seven Only
	Supplying and fixing of PVC casing and capping on the wall or ceilng ...using necessary materials like bends, screws at an interval of 300mm ....Etc. as required. (ELE SR 2021-22 Page-2, Item-1.8)	m			
	...a) 20mm	m	240.00	27.00	Rupees Twenty Seven Only
	Supplying PVC/GI flexible conduit pipe....mm dia fixing on surface over ...inverted wooden plugs or phill plugs or rawl plugs and clamped using ...heavy gauge saddles at an interval of 300mm using NF screws and either ...end of the pipe terminated completely. (ELE SR 2021-22 Page-2, Item-3.4)	Nos			
	...a) 20mm	Nos	180.00	25.00	Rupees Twenty Five Only
	Extra for supplying 4mm thick white plastic plate and covering for ...junction boxes of size 110mm conduit using necessary machine screws. (ELE SR 2021-22 Page-6, Item-3.10.2)	Nos			
	...a) 110mm	Nos	120.00	12.00	Rupees Twelve Only
	Supplying a 50mm wooden plug, tapered from 50x50mm to 25x25mm ...and fixing by using binding wire before concreting a roof slap. (ELE SR 2021-22 Page-6, Item-3.11)	Nos	120.00	8.00	Rupees Eight Only
	Supplying and fixing of slim box fitting, made out of CRCA Sheet metal body with locking type holder completely wired. Excluding Ballast & Flouresent Tube. 1 x 4' Tube light fitting. (ELE SR 2019-20 Page-41, Item-12.25.2)	each	48.00	310.00	Rupees Three Hundred Ten Only
	Supplying and fixing of T5 Fluorescent Tube with 14W power consumption with low 3mg Mercury content & below 40% glass content than T8 lamp & 20% less phosphor coating than T8 with initial lumen on 1350 (for 3000-6500 deg Kelvin), rated Avg life (12 Hr. Cycle) of greater than 35000 burring hours. Operating voltage range from 180V to 265V, 50Hz AC power Supply 28 watts Lamp (ELE SR 2021-22 Page-40, Item-12.18.2)	each	48.00	172.00	Rupees One Hundred Seventy Two Only
	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS: 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. (KPWD SR 2021-22 Volume-II Item No.13.24)	Ltr	24000.00	8.80	Rupees Eight And Paise Eighty Only
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall 25 mm nominal dia Pipes (KPWD SR 2021-22, Volume-II, Item No.13.31.3)	mtr	216.00	347.60	Rupees Three Hundred Forty Seven And Paise Sixty Only
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall 32 mm nominal dia Pipes (KPWD SR 2021-22, Volume-II, Item No.13.31.4)	mtr	180.00	432.30	Rupees Four Hundred Thirty Two And Paise Thirty Only
	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber 150 x 100 mm size P type With Non Modular common burnt clay bricks of designation 3.5 & with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight or cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: (KPWD SR 2021-22, Volume-II, Item No.13.39)	Each	24.00	2528.90	Rupees Two Thousand Five Hundred Twenty Eight And Paise Ninety Only
	Raw water Feed pump with starter,Type-Horizontal ,Centrifugal.Make-Kirloskar/Beacon weir/Sumo/CNP(SS),Material of Construction-Cast Iron,Head-36 MWC. Motor-3.0HPthree phase.Starter-L&T Siemen make push botton type DOL Starter	Nos	24.00	24500.00	Rupees Twenty Four Thousand Five Hundred Only

No. of Corrections : NIL

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Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
...sand filter,Type-verticle,Floor Mounted,Make-...ctural/ION EXCHANGE(INDIA) ...ter,Square,min operating Pressure 2.0kg/cm2,Max. Operating

Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
40 m	Rmt	600.00	442.00	Rupees Four Hundred Forty Two Only
50 m	Rmt	600.00	456.00	Rupees Four Hundred Fifty Six Only
100 m	Rmt	600.00	536.00	Rupees Five Hundred Thirty Six Only
150 m	Rmt	600.00	634.00	Rupees Six Hundred Thirty Four Only
200 m	Rmt	600.00	700.00	Rupees Seven Hundred Only
250 m	Rmt	600.00	825.00	Rupees Eight Hundred Twenty Five Only
300 m	Rmt	600.00	900.00	Rupees Nine Hundred Only
350 m	Rmt	240.00	1129.00	Rupees One Thousand One Hundred Twenty Nine
400 m	Rmt	144.00	2600.00	Rupees Two Thousand Six Hundred Only
Providing and fixing 250mm dia PVC (casing pipe) (page no.XXXI, SL. no.1 KPWD SR 2016-17)				
Supply of SI mark 175mm nominal bore,plain and steel casing pipe made of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest amendments, electrical resistance welded steel tubes, material conforming to IS 1387-1993 and manufactured by basic open hearth or by basic oxygen process in random length of 5-7m both ends threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight and should be with ISI marking weighing 25.10kg/m prices include Collar-Medium duty.	Rmt	600.00	1933.00	Rupees One Thousand Nine Hundred Thirty Three Only
Providing and fixing MS casing collars as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and collars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments	Each	100.00	150.00	Rupees One Hundred Fifty Only
Providing 175mm dia Bore Cap CE (M)	No	12.00	100.00	Rupees One Hundred Only
Kirloskar suguna CRI KIRLOSKAR and other equipments pumps 10.00 HP/7.5 KV (20 stage)	No	12.00	49955.00	Rupees Forty Nine Thousand Nine Hundred
Providing and fixing in trenches galvinised/mild steel tube 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for seperately) including cost of all materials, labour charges,HOM of equipment and testing complete as per specifications. Specification No. KBS 13.2.14/13.6 (page no.92/lt no 13.15)KPWD SR 2016-17	Rmt	4185.00	411.28	Rupees Four Hundred Eleven And Paise Twenty Eight Only
Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and power coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and confirming to the attwached GTP of group A 3CX4.0 sq.mm	Rmt	8310.00	126.70	Rupees One Hundred Twenty Six And Paise Seventy Only
Providing and fixing in position 50mm Nominal bore non-return valve vertical type of approved make including cost of all materials,labour and HOM of equipment with all leads complete as per specifications.(PWD SR 16-19,P-95/lt no.13.62)	No	12.00	1345.14	Rupees One Thousand Three Hundred Forty Five And Paise Fourteen Only
Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :	No	12.00	597.30	Rupees Five Hundred Ninety Seven And Paise Thirty Only
Supplying and fixing 50mm GI Elbow.	No	12.00	111.80	Rupees One Hundred eleven & paise eighty only
Supplying and fixing 50mm GI Nipple	No	12.00	104.30	Rupees One Hundred Four And Paise Thirty Only
Supplying and fixing 50mm GI Hose colleres	No	696.00	103.00	Rupees One Hundred Three Only
Supplying and fixing 20" x 20" x 2.5" polished wood board made of not less than 15mm thick plank on both the sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plues screws etc.	No	12.00	302.00	Rupees Three Hundred Two Only
Supplying and fixing miniature circuit breakers on existing MCB distribution board using necessary fixing materials and 'C' type curve indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.(PWD Ele SR 2022-23,P-13/Sl no.5.17.7) 6-32 A TPN	No	12.00	1777.00	Rupees One Thousand Seven Hundred Seventy Seven Only
Supplying of TPST with rewirable porcelain channels in SM encloser made out of 14 SWG powder coated point of approved colour 32 amps (PWD Ele SR 2022-23,P-10,lt-5.5.1)	No	12.00	1944.00	Rupees One Thousand Nine Hundred Forty Four Only
Supplying and fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50 HZ 12/24 V DC(PWD Ele SR 2022-23 P-14,Sl no.5.38)	No	12.00	464.00	Rupees Four Hundred Sixty Four Only
Supplying fully automatic star delta starter unit push button type with suitable wires 2 conductors and adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts phase and wired after fixing to the existing wooden board for motor. upto 12.5HP(PWD Ele SR 2022-23,p-10,Sl no.-5.2.1)	No	12.00	6912.00	Rupees Six Thousand Nine Hundred Twelve Only
Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motar up to 20 HP capacities.(PWD Ele SR 2022-23,p-10/Sl no.5.3)	No	12.00	805.00	Rupees Eight Hundred Five Only

No. of Corrections : 01

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Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
...lighting/power circuit using one of FRLS PVC insulated 1100V ...stranded copper conductor single core wire in open or ...ed section of wiring as per IS 694 1990 & conforming to the ...ons of group A 4 sqmm (PWD Ele SR 2019-20,p-3,It-2.3.4(d)	Mtrs	240.00	59.00	Rupees Fifty Nine Only
...ost fixing and wiring heavy duty low voltage capacitors ...ering to IS 2834 phase 400/440 volts grade, for power factor ...ent of rotating machinery (PWD Ele SR 2022-23,p-14/SI	No	48.00	432.00	Rupees Four Hundred Thirty Two Only
...fixing wiring earth electrode for grounding conduits, LC ...ings and other equipments on the meter board using 40mm dia 2.90 ...ng 2.5 mtr long buried in a pit . The pit should be filled with ...ed mixture of salt and charcoal 150mm allround the pipe to ...ater level. The connection from the to the conduit etc., is to be ...ade through GI wire of size as per ISI specification 7.3.3. of IS 732	No	12.00	2999.70	Rupees Two Thousand Nine Hundred Ninety Nine And Paise Seventy Only
...ion of trench of 0.36mtrs deepx0.5 mtrs wide refilling the trench to ...ounding gorund level and consolidating etc., complete (PWD Ele SR ...ng 11,It-6.6.2) hard soil	Mtrs	96.00	102.00	Rupees One Hundred Two Only
...ng laying 1.1 KV class I.T UG cable having aluminium conductor ...ulated extruded inner shethed galvanised steel strip (excep 2cx ...core wire armoured) confirming to IS-3975 1990 (No. of strip ...ired in GTP) and extruded PVC outer sheathed armoured cable with ...ified IS 1554,part-1:1988 and confirming to the attached GTP of ...4 core 16 sq mm PWD Ele SR 2019-20,p-40,It-6.4.4)	Mtrs	120.00	150.00	Rupees One Hundred Fifty Only
...harge for laying 1.1 KV class UG cable in existing trench GI pipe ...ware pipe/ on wall / on poles as required in existing trench/duct ...16 sq mm(PWD Ele SR 2019-20,p-41,It-6.5.1)	No	300.00	11.88	Rupees Eleven And Paise Eighty Eight Only
...plying and fixing class-A(medium duty) GI pipe wall thickness not ...than 3.25mm on pole/wall/drain crossing with necessary clamping ...rangements for UG cable of 1.1KV class 40mm(PWD Ele SR 2019-20,p-...,It-6.8.3)	Rmt	24.00	335.00	Rupees Three Hundred Thirty Five Only
...plying and fixing LT cast iron pot heads suitable for 1.1KV class UG ...ble filled with necessary bitumen / insulating compound complete ...th terminals,clamps bolts and nuts and washer etc.,complete for 16 sq ...as per specifications (PWD Ele SR 2019-20,p-42,It-6.10.2)	No	12.00	270.00	Rupees Two Hundred Seventy Only
...plying and fixing porcelain fuse channel with cut out on the existing ...wooden block and wiring complete 63 amps(PWD Ele SR 2019-20,p-10,It-...)	No	36.00	372.00	Rupees Three Hundred Seventy Two Only
...smantling of cement concrete pavement by mechanical means using ...umatic tools, breaking to pieces not exceeding 0.02 m3 in volume and ...k piling at designated locations and disposal of dismantled materials ...and stacking serviceable and unserviceable materials separately	Cum	78.17	464.20	Rupees Four Hundred Sixty Four And Paise Twenty Only
Earth work excavation for pipeline trenches in all kinds of by mechanical means above 600 mm trench width as per drawing and technical specifications, including setting out, construction of shoring, strutting, barricading, caution lights, bracing, using sight rails & bonding rods at every 100 mm whevere necessary as directed, removal of slumps and other deleterious matter, dressing of sides and levelling the bottom of trench to the extent required , utilising the available excavated earth locally for the work and all other appurtenances to complete in the followingstrata.	Cum	216.00	376.20	Rupees Three Hundred Seventy Six And Paise Twenty Only
Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (external work) - 50mm nominal OD pipes (KPWD SR 2018-19, P-99, It-13.87.6)	Mtr	1326.00	772.20	Rupees Seven Hundred Seventy Two And Paise Twenty Only
Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc complete : 25 to 40 mm nominal bore	Each	132.60	518.10	Rupees Five Hundred Eighteen And Paise Ten Only
Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work). - 20mm nominal OD pipes (KPWD SR 2018-19, P-98, It-13.85.2)	Mtr	120.00	236.50	Rupees Two Hundred Thirty Six And Paise Fifty Only
Providing and fixing to wall, ceiling and floor Medium density polyethylene pipes 6.00 kgf/sq.cm working pressure 25mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9 (KPWD SR 2018-19, P-95, It-13.67)	Mtr	1500.00	136.74	Rupees One Hundred Thirty Six And Paise Seventy Four Only
Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications	Cum	151.20	134.20	Rupees One Hundred Thirty Four And Paise Twenty Only
Loading and unloading of stone boulder/stone aggregates/sand/kanker/ moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (KPWD SR 2018-19,P-136, it.17.1)	Cum	142.97	97.96	Rupees Ninety Seven And Paise Ninety Six Only
Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) 65 mm nominal bore	Each	12.00	1529.00	Rupees One Thousand Five Hundred Twenty

P/N A Corrections : 01

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Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
...ing brass stop cock of approved quality	Each	132.60	358.60	Rupees Three Hundred Fifty Eight And Paise Sixty
...ing in position plain cement concrete for levelling ...ks in foundation. The granite/trap/basalt crushed ...ng aggregates and fine aggregates as per relevant IS Codes ...ed in layers not exceeding 150 mm thickness, well ...tic vibrators, including all lead & lifts, cost of all ...ges, labour, Usage charges of machineries, curing, and all ...ssary required to complete the work as per technical ...ns. The cost of steel reinforcement & formwork shall be paid ... (M10) Using 20 mm nominal size graded crushed	Cum	89.51	6518.60	Rupees Six Thousand Five Hundred Eighteen And Paise Sixty Only
...roval charges and miscellaneous	No	12.00	12000.00	Rupees Twelve Thousand Only
...g in position Reinforced cement concrete M20 Using ...l size graded crushed coarse aggregates for all Sub ...of building, Irrigation works, Sub structure works of bridges, ...& other parallel works from 0.50m to 3.50 m height. The ...basalt crushed graded coarse aggregates and fine ...per relevant IS Codes machine mixed with super ...s in layers, well compacted using needle vibrators, ...holes wherever necesary, including all lead & lifts, cost of ...quality, confirming to the requirements of relevant IS ...charges of machinery, curing and all other ...required to complete the work as per technical	Cum	13.12	7088.05	Rupees Seven Thousand Eighty Eight And Paise Five Only
...ed cement concrete M20 Design ...g in position Reinforced cement concrete M20 Design ...nominal size graded crushed coarse aggregates for all ...of building , Road works, Water works, Irrigation works ...works of bridges upto 3.50 m height. The granite/ ...graded coarse aggregates and fine aggregates as per ...machine mixed with super plasticisers laid in layers, ...needle vibrators. The cost includes all lead & lifts, ...materials, quality confirming to the requirements of relevant IS ...charges of machinery, curing and all other ...required to complete the work as per technical	Cum	3.24	7829.91	Rupees Seven Thousand Eight Hundred Twenty Nine And Paise Ninety One Only
...The cost of steel reinforcement, dowel bars & formwork ...g in position Reinforced cement concrete M20 Design ...nominal size graded crushed coarse aggregates for all ...of building , Road works, Water works, Irrigation works ...works of bridges upto 3.50 m height. The granite/ ...graded coarse aggregates and fine aggregates as per ...machine mixed with super plasticisers laid in layers, ...needle vibrators. The cost includes all lead & lifts, ...materials, quality confirming to the requirements of relevant IS ...charges of machinery, curing and all other ...required to complete the work as per technical	Cum	14.42	8541.72	Rupees Eight Thousand Five Hundred Forty One And Paise Seventy Two Only
...The cost of steel reinforcement, dowel bars & formwork ...Fe 500 & above Reinforcement in ...and Placing as per Drawing ...Substructure / Superstructure complete as per Drawing ...Specifications. (KWPD 2021-22, V-III, Item No.9.3, Page	Cum	3.85	103724.50	Rupees One Lakh(s) Three Thousand Seven Hundred Twenty Four And Paise Fifty Only
...Size Stone masonry with hard stone in foundation & plinth ...mortar 1:6 (1 cement : 6 coarse sand) (KWPD 2021-22, V-II, ...54, Page No.9)	Cum	31.21	5964.20	Rupees Five Thousand Nine Hundred Sixty Four And Paise Twenty Only
...and constructing load bearing wall with Solid Concrete blocks ...400x200x200mm having block density more than 1800kg/m3 and ...compressive strength of 4.00 N/mm2 conforming to IS 2185 ...) - 2005 and constructed with CM 1:4 as per IS 2572:2005 ...cost of all materials, labour, scaffolding and curing, usage ...of machinery etc complete as per specifications. (KWPD 2021-22, ...No.6.32, Page No.17)	Sqm	192.75	1322.20	Rupees One Thousand Three Hundred Twenty Two And Paise Twenty Only
...ding 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to ...stone masonary including rounding off corners wherever required ...th rendering, providing and removing scaffolding, including cost of ...rials, labour, curing complete as per specifications and as per ...ctions of Engineer-in-charge. (KWPD 2021-22, V-II, Item No.8.3.1, ...No.41)	Sqm	474.81	337.70	Rupees Three Hundred Thirty Seven And Paise Seventy Only
...ding 12 mm cement plaster with cement mortar 1:4 (1 cement: 4 ...sand) to brick masonry including rounding off corners wherever ...ired smooth rendering, providing and removing scaffolding, ...ding cost of materials, labour, curing complete as per specifications ...as per directions of Engineer-in-charge.. (KWPD 2021-22, V-II, Item ...5.11, Page No.41)	Sqm	38.28	239.80	Rupees Two Hundred Thirty Nine And Paise Eighty Only
...shing walls with Acrylic Smooth exterior paint of required shade ...ork (Two coat applied @ 1.67 ltr/10 m² over and including ...ming coat of exterior primer applied @ 2.20 kg/10 m²) with paint of ...roved quality to give an even shade, after thoroughly brooming the ...face to remove all dirt, dust, mortar drops and foreign matter ...luding preparing the surface even and sand paper smooth, cost of ...terials, labour complete as per specifications and as per directions of ...gineer-in-charge. (KWPD 2021-22, V-II, Item No.8.30, Page No.46)	Sqm	513.09	149.60	Rupees One Hundred Forty Nine And Paise Sixty Only
...roviding and laying water proofing treatment to the Roof with PU based ...ingle component elastomeric pure polyurethane based coating on New ...rface/Chajjas/Sunken portion of WC:Bathroom, cold applied PU ...waterproofing membrane that is highly elastic with elongation greater ...than 400% and tensile strength greater than 2MPa as per ASTM D412. ...The waterproofing membrane to be applied in 2coats @ 1.6kg per m2 to ...achieve final DFT (dry film thickness) of 1mm including prime coat of ...epoxy primer @150 g per m2 and protection with 120gsm Geo-textile ...over the waterproofing membrane. The finished cost to include surface ...preparation, making coving at Junction, Bore Packing, treatment of ...construction joints completely as per specification & with a 10 years	Sqm	42.78	819.50	Rupees Eight Hundred Nineteen And Paise Fifty Only

A Correction : NIL

P. N - (8)

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	Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
	...ing vitrified floor tiles in different sizes (thickness to be ...as per the manufacturer) with water absorption less than 0.08% ...ding to IS: 15622, of approved make, in all colours and ...ns or Stone thick cement mortar 1:4 (1 cement : 4 coarse ...ing with grey cement slurry @ 3.3 kg/ m2 including grouting ...with white cement and matching pigments etc., Complete. Size ...x 600 mm (KWPD 2021-22, V-II, Item No.9.12.1, Page No.60)	Sqm	128.31	1125.30	Rupees One Thousand One Hundred Twenty Five And Paise Thirty Only
	...ying and fixing rolling shutters of approved make, made of required ...ze M.S. laths, interlocked together through their entire length and ...ded at either at the end by end locks, mounted on specially designed ...ded box with brackets, side guides and arrangements for inside and ...ide to king with push and pull operation complete, including the cost ...ching and fixing necessary 27.5 cm long wire springs ...ade from high tensile steel wire of adequate strength ...ming to IS: 4454 - part 1 and M.S. top cover of required thickness ...rolling shutters, 80x1.25 mm M.S. laths with 1.25 mm thick top cover ...rolling cost of materials, labour, usage charges of machinery complete ...t new elevations and as per directions of the Engineer-in-	Sqm	19.50	2761.00	Rupees Two Thousand Seven Hundred Sixty One Only
	...h work in surface excavation by mechanical means for lowering & ...ding the ground for all works other than foundation in all kinds of ...ash & split, depth not exceeding 300mm as per drawing and technical ...pecifications, including setting out, shoring, strutting, barricading, ...ation lights, removal of stumps and other deleterious matter including ...ressing of excavated surfaces, disposing off or levelling the excavated ...arth or sorting & stacking the selected earth for reuse in a radius of 50 ...m and lift upto 1.5 m including cost of labour, tools, usage of machinery & ...ther appurtenances required to complete the work (Page No.8, I.No. ...12 of Vol-1 CSR 2021-22). In all kinds of soils upto 300 mm depth	Cum	4839.58	161.10	Rupees One Hundred Sixty One And Paise Ten Only
	Construction of Granular Sub-Base of required grading as per design ...ming in a mechanical mix plant at OMC, carriage of mixed Material to ...work site, spreading in uniform layers with motor grader on prepared ...surface and compacting with vibratory power roller to achieve the ...desired density, complete as per clause 401 Granular Sub-BasePlant Mix ...Method Materia.Item No.4.1(V).Page No.19, Vol III SR-21-22	Cum	2903.75	2581.70	Rupees Two Thousand Five Hundred Eighty One And Paise Seventy Only
	Providing, laying, spreading and compacting graded stone aggregate to ...wet mix macadam specification including premixing the Material with ...water at OMC in mechanical mix plant carriage of mixed Material by ...tipper to site, laying in uniform layers with paver/grader in sub-base / ...base course on well prepared surface and compacting with vibratory ...roller to achieve the desired density. Wet Mix Macadam (Plant mix ...method) (Page No.24, I.No. 4.27 of Vol-3 SR 2021-22)	Cum	3387.71	2633.40	Rupees Two Thousand Six Hundred Thirty Three And Paise Forty Only
	Providing and applying primer coat with SS1 grade Bitumen Emulsion on ...prepared surface of granular base including cleaning of road surface and ...spraying primer at the rate of 0.90 kg per m2 using mechanical means. ...(Page No.29, I.No. 5.1 of Vol-3 SR 2021-22).Issue Rate 07/07/2022	Sqm	19358.33	46.20	Rupees Forty Six And Paise Twenty Only
	Bituminous Macadam Grading - II for traffic <20 MSA Providing and ...laying Bituminous Macadam with 40/60 TPH capacity hot mix plant ...using crushed aggregates of specified grading premixed with bituminous ...binder VG-30 @ 3.4% by weight of mix, transported to site, laid over a ...previously prepared surface with mechanical paver finisher to the ...required grade, level and alignment and rolled as per clauses 501.6 and ...501.7 to achieve the desired compaction (Page No.31, I.No. 5.8 C of Vol-3 ...SR 2021-22) Issue Rate 07/07/2022	Cum	967.92	8104.80	Rupees Eight Thousand One Hundred Four And Paise Eighty Only
140	Providing and applying tack coat with RS1 Bituminous Emulsion using ...emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared ...bituminous surface cleaned with mechanical broom(Page No.29, I.No. 5.3 ...of Vol-3 SR 2021-22)	Sqm	64527.75	13.20	Rupees Thirteen And Paise Twenty Only
141	Bituminous Concrete Grading II for traffic <20 MSA Providing and laying ...Bituminous Concrete with 40/60 TPH capacity hot mix plant using ...crushed aggregates of specified grading, premixed with bituminous ...binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to ...work site, laying with mechanical paver finisher to the required grade, ...level and alignment, rolling with smooth wheeled, vibratory and tandem ...rollers to achieve the desired compaction as per MORTH ...specificationclause No. 507 complete in all respects(Page No 36, I.No.5.16 ...C of Vol-3 SR 2021-22).Issue Rate 07/07/2022	Sqm	2581.11	11672.10	Rupees Eleven Thousand Six Hundred Seventy Two And Paise Ten Only
142	Road Marking with Hot Applied Thermoplastic Compound with ...Reflectorising Glass Beads on Bituminous SurfaceProviding and laying of ...hot applied thermoplastic compound 2.5 mm thick including ...reflectorising glass beads @ 250 g/m2 area, thickness of 2.5 mm is ...exclusive of surface applied glass beads as per IRC:35:2015.The finished ...surface to be level, uniform and free from streaks and holes(Page No.57, ...I.No. B.15 of Vol-3 SR 2021-22).	Sqm	2320.90	525.80	Rupees Five Hundred Twenty Five And Paise Eighty Only

Total no. of pages : 09

Total no. of corrections : 04

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Executive Engineer
RR NAGARA Division
BBMP

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